L Number	Hits	S arch Text	DB	Tim stamp
-	1	("20010046963").PN.	USPAT; US-P PUB	2003/01/28 13:42
-	5	(("5910307") or ("6194469") r ("6080788") or ("5990291") or ("6323018")).PN.	USPAT; US-PGPUB	2003/01/28 12:04
-	6	(("6423365") or ("4297220") or ("4439458") or ("5266685") or ("5665783") or ("5817354")).PN.	USPAT; US-PGPUB	2003/01/28 12:09
-	1	("6264995").PN.	USPAT; US-PGPUB	2003/01/28 12:09
-	2798	cyclooxygenase and inhibition	USPAT; US-PGPUB	2003/01/28 13:43
-	4	cyclooxygenase and genistin	USPAT; US-PGPUB	2003/01/28 13:45
-	0	(cyclooxygenase and inhibition) and rutinoside?	USPAT; US-PGPUB	2003/01/28 13:46
-	0	(cyclooxygenase and inhibition) and apiosylglucoside	USPAT; US-PGPUB	2003/01/28 13:47
-	42	(cyclooxygenase and inhibition) and glucoside	USPAT; US-PGPUB	2003/01/28 13:47

L Numb r	Hits	Search T xt	DB	Tim stamp
1	22	acacetin	USPAT; US-P PUB	2002/09/17 12:53
2	89	chrysin	USPAT; US-P PUB	2002/09/17 12:53
3	6	chrysin and arthritis	USPAT; US-PGPUB	2002/09/17 13:01
4	52	diosmin	USPAT; US-PGPUB	2002/09/17 13:01
5	7	diosmin and arthritis	USPAT; US-PGPUB	2002/09/17 13:02
6	13	apiin	USPAT; US-PGPUB	2002/09/17 13:05
7	91	baicalein	USPAT; US-PGPUB	2002/09/17 13:05
8	7	baicalein and arthritis	USPAT; US-PGPUB	2002/09/17 13:13
9	186	apigenin	USPAT; US-PGPUB	2002/09/17 13:14
10	27	apigenin and arthritis	USPAT; US-PGPUB	2002/09/17 13:18
11	23	diosmetin	USPAT; US-PGPUB	2002/09/17 13:35
12	29	tangeretin	USPAT; US-PGPUB	2002/09/17 13:35
13	7	tangeretin and arthritis	USPAT; US-PGPUB	2002/09/17 13:37
14	133	luteolin	USPAT; US-PGPUB	2002/09/17 13:37
15	109	luteolin and composition	USPAT; US-PGPUB	2002/09/17 13:55
16	645	rutin	USPAT; US-PGPUB	2002/09/17 13:55
17	29	rutin and alzheimer	USPAT; US-PGPUB	2002/09/17 13:57
18	497	514/27	USPAT; US-PGPUB	2002/09/17 13:57
19	10674	514/27 and arthritis or alzheimer	USPAT; US-PGPUB	2002/09/17 13:58
20	48	514/27 and arthritis	USPAT; US-PGPUB	2002/09/17 14:01
21	1307	424/439	USPAT; US-PGPUB	2002/09/17 14:02
22	107	424/439 and arthritis	USPAT; US-PGPUB	2002/09/17 14:05
23	488	426/311	USPAT; US-PGPUB	2002/09/17 14:06
24	1	426/311 and flav n	USPAT; US-P PUB	2002/09/17 14:06

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 NEWS 10  Jun 10   MEDLINE Reload
 NEWS 11  Jun 10   PCTFULL has been reloaded
 NEWS 12  Jul 02   FOREGE no longer contains STANDARDS file segment
 NEWS 13  Jul 22   USAN to be reloaded July 28, 2002;
                   saved answer sets no longer valid
 NEWS 14  Jul 29   Enhanced polymer searching in REGISTRY
 NEWS 15  Jul 30   NETFIRST to be removed from STN
 NEWS 16  Aug 08   CANCERLIT reload
 NEWS 17  Aug 08   PHARMAMarketLetter(PHARMAML) - new on STN
 NEWS 18  Aug 08   NTIS has been reloaded and enhanced
 NEWS 19  Aug 19   Aquatic Toxicity Information Retrieval (AQUIRE)
                   now available on STN
 NEWS 20  Aug 19   IFIPAT, IFICDB, and IFIUDB have been reloaded
 NEWS 21  Aug 19   The MEDLINE file segment of TOXCENTER has been reloaded
 NEWS 22  Aug 26   Sequence searching in REGISTRY enhanced
 NEWS 23  Sep 03   JAPIO has been reloaded and enhanced
 NEWS 24  Sep 16   Experimental properties added to the REGISTRY file
 NEWS 25  Sep 16   CA Section Thesaurus available in CAPLUS and CA
 NEWS 26  Oct 01   CASREACT Enriched with Reactions from 1907 to 1985
 NEWS 27  Oct 21   EVENTLINE has been reloaded
 NEWS 28  Oct 24   BEILSTEIN adds new search fields
 NEWS 29  Oct 24   Nutraceuticals International (NUTRACEUT) now available on
STN
 NEWS 30  Oct 25   MEDLINE SDI run of October 8, 2002
 NEWS 31  Nov 18   DKILIT has been renamed APOLLIT
 NEWS 32  Nov 25   More calculated properties added to REGISTRY
 NEWS 33  Dec 02   TIBKAT will be removed from STN
 NEWS 34  Dec 04   CSA files on STN
 NEWS 35  Dec 17   PCTFULL now covers WP/PCT Applications from 1978 to date
 NEWS 36  Dec 17   TOXCENTER enhanced with additional content
 NEWS 37  Dec 17   Adis Clinical Trials Insight now available on STN
 NEWS 38  Dec 30   ISMEC no longer available
 NEWS 39  Jan 13   Indexing added to some pre-1967 records in CA/CAPLUS
 NEWS 40  Jan 21   NUTRACEUT offering one free connect hour in February 2003
 NEWS 41  Jan 21   PHARMAML offering one free connect hour in February 2003
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L2            0 WENZEL, UME?/AU

=> s daniel, h?/au
L3         1049 DANIEL, H?/AU

=> s daniel, hannelore?/au
L4          136 DANIEL, HANNELORE?/AU

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L4   ANSWER 1 OF 136     MEDLINE
AN   2002479234      IN-PROCESS
DN   22225258   PubMed ID: 12240948
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TI Renal assimilation of short chain peptides: visualization of tubular peptide uptake.
AU Groneberg David A; Doring Frank; Nickolaus Monika; **Daniel Hannelore**; Fischer Axel
CS Dept. of Pediatric Pneumology and Immunology, Charite Campus Virchow, Humboldt-University, Berlin, Germany.
SO PHARMACEUTICAL RESEARCH, (2002 Aug) 19 (8) 1209-14.
Journal code: 8406521. ISSN: 0724-8741.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS IN-PROCESS; NONINDEXED; Priority Journals
ED Entered STN: 20020921
Last Updated on STN: 20021213

L4 ANSWER 2 OF 136 MEDLINE
AN 2002474301 MEDLINE
DN 22223192 PubMed ID: 12237156
TI Mammalian peptide transporters as targets for drug delivery.
AU Rubio-Aliaga Isabel; **Daniel Hannelore**
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg 2, D-85350,., Freising, Germany.
SO TRENDS IN PHARMACOLOGICAL SCIENCES, (2002 Sep) 23 (9) 434-40. Ref: 60
Journal code: 7906158. ISSN: 0165-6147.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 200210
ED Entered STN: 20020919
Last Updated on STN: 20021017
Entered Medline: 20021016

L4 ANSWER 3 OF 136 MEDLINE
AN 2002448079 MEDLINE
DN 22194346 PubMed ID: 12082113
TI PEPT1 as a paradigm for membrane carriers that mediate electrogenic bidirectional transport of anionic, cationic, and neutral substrates.
AU Kottra Gabor; Stamfort Adelmar; **Daniel Hannelore**
CS Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg 2, D-85350 Freising-Weihenstephan, Germany.. kottra@wzw.tum.edu
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Sep 6) 277 (36) 32683-91.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200210
ED Entered STN: 20020904
Last Updated on STN: 20030105
Entered Medline: 20021029

L4 ANSWER 4 OF 136 MEDLINE
AN 2002325363 MEDLINE
DN 22063354 PubMed ID: 11959859
TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters.
AU Boll Michael; Foltz Martin; Rubio-Aliaga Isabel; Kottra Gabor; **Daniel**

Hannelore
CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, D-85350 Freising-Weihenstephan, Germany.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Jun 21) 277 (25) 22966-73.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS GENBANK-AF453743; GENBANK-AF453744
EM 200207
ED Entered STN: 20020618
Last Updated on STN: 20030105
Entered Medline: 20020719

L4 ANSWER 5 OF 136 MEDLINE
AN 2002322324 MEDLINE
DN 22060222 PubMed ID: 12065310
TI H+-peptide cotransport in the human bile duct epithelium cell line SK-ChA-1.
AU Knutter Ilka; Rubio-Aliaga Isabel; Boll Michael; Hause Gerd; **Daniel Hannelore**; Neubert Klaus; Brandsch Matthias
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology, Halle
D-06120, D-85350 Germany.
SO AMERICAN JOURNAL OF PHYSIOLOGY. GASTROINTESTINAL AND LIVER PHYSIOLOGY, (2002 Jul) 283 (1) G222-9.
Journal code: 100901227. ISSN: 0193-1857.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200207
ED Entered STN: 20020615
Last Updated on STN: 20020717
Entered Medline: 20020716

L4 ANSWER 6 OF 136 MEDLINE
AN 2002234690 MEDLINE
DN 21956018 PubMed ID: 11959571
TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is increased by Ca2+ channel blockers.
AU Wenzel Uwe; Kuntz Sabine; Diestel Simone; **Daniel Hannelore**
CS Department of Food and Nutrition, Molecular Nutrition Unit, Technical University of Munich, D-85350 Freising-Weihenstephan, Germany.
SO ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, (2002 May) 46 (5) 1375-80.
Journal code: 0315061. ISSN: 0066-4804.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200208
ED Entered STN: 20020426
Last Updated on STN: 20020807
Entered Medline: 20020806

L4 ANSWER 7 OF 136 MEDLINE
AN 2002201612 MEDLINE
DN 21931954 PubMed ID: 11934684
TI Peptide transport in the mammary gland: expression and distribution of

PEPT2 mRNA and protein.
AU Groneberg David A; Doring Frank; Theis Stephan; Nickolaus Monika; Fischer Axel; **Daniel Hannelore**
CS Dept. of Pediatric Pneumology and Immunology, Charite Campus-Virchow, Humboldt-University, D-13353 Berlin, Germany.
SO AMERICAN JOURNAL OF PHYSIOLOGY. ENDOCRINOLOGY AND METABOLISM, (2002 May) 282 (5) E1172-9.
Journal code: 100901226. ISSN: 0193-1849.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200205
ED Entered STN: 20020406
Last Updated on STN: 20020517
Entered Medline: 20020516

L4 ANSWER 8 OF 136 MEDLINE
AN 2002142307 MEDLINE
DN 21850698 PubMed ID: 11751927
TI Synthesis and characterization of high affinity inhibitors of the H+/peptide transporter PEPT2.
AU Theis Stephan; Knutter Ilka; Hartrodt Bianka; Brandsch Matthias; Kottra Gabor; Neubert Klaus; **Daniel Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Hochfeldweg 2, D-85350 Freising-Weihenstephan, Germany.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2002 Mar 1) 277 (9) 7287-92.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200204
ED Entered STN: 20020307
Last Updated on STN: 20030105
Entered Medline: 20020401

L4 ANSWER 9 OF 136 MEDLINE
AN 2002004080 MEDLINE
DN 21624510 PubMed ID: 11752223
TI Defining minimal structural features in substrates of the H(+)/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives.
AU Theis Stephan; Hartrodt Bianka; Kottra Gabor; Neubert Klaus; **Daniel Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, Germany.
SO MOLECULAR PHARMACOLOGY, (2002 Jan) 61 (1) 214-21.
Journal code: 0035623. ISSN: 0026-895X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200201
ED Entered STN: 20020102
Last Updated on STN: 20020125
Entered Medline: 20020110

L4 ANSWER 10 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2003:39976 BIOSIS

DN PREV200300039976
TI Mammalian peptide transporters as targets for drug delivery.
AU Rubio-Aliaga, Isabel (1); **Daniel, Hannelore (1)**
CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising, Germany: daniel@wzw.tum.de Germany
SO Trends in Pharmacological Sciences, (September 2002, 2002) Vol. 23, No. 9, pp. 434-440. print.
ISSN: 0165-6147.
DT General Review
LA English

L4 ANSWER 11 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:547524 BIOSIS
DN PREV200200547524
TI Renal assimilation of short chain peptides: Visualization of tubular peptide uptake.
AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel, Hannelore**; Fischer, Axel (1)
CS (1) Dept. of Pediatric Pneumology and Immunology, Humboldt-University, Augustenburger Platz 1, Charite Campus Virchow, MFZ Forum 4, D-13353, Berlin: axel.fischer@charite.de Germany
SO Pharmaceutical Research (New York), (August, 2002) Vol. 19, No. 8, pp. 1209-1214. http://www.kluweronline.com/issn/0724-8741. print.
ISSN: 0724-8741.
DT Article
LA English

L4 ANSWER 12 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:546734 BIOSIS
DN PREV200200546734
TI PEPT1 as a paradigm for membrane carriers that mediate electrogenic biderectional transport of anionic, cationic, and neutral substrates.
AU Kottra, Gabor (1); Stamfort, Adelmar; **Daniel, Hannelore**
CS (1) Molecular Nutrition Unit, Technical University of Munich, Hochfeldweg 2, D-85356, Freising: kottra@wzw.tum.de Germany
SO Journal of Biological Chemistry, (September 6, 2002) Vol. 277, No. 36, pp. 32683-32691. http://www.jbc.org/. print.
ISSN: 0021-9258.
DT Article
LA English

L4 ANSWER 13 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:447827 BIOSIS
DN PREV200200447827
TI H+-peptide cotransport in the human bile duct epithelium cell line SK-ChA-1.
AU Knuetter, Ilka; Rubio-Aliaga, Isabel; Boll, Michael; Hause, Gerd; **Daniel, Hannelore**; Neubert, Klaus; Brandsch, Matthias (1)
CS (1) Membrane Transport Group, Biozentrum, Martin Luther University, Halle-Wittenberg, Weinbergweg 22, D-06120, Halle: brandsch@biozentrum.uni-halle.de Germany
SO American Journal of Physiology, (July, 2002) Vol. 283, No. 1 Part 1, pp. G222-G229. http://www.ajpcon.org. print.
ISSN: 0002-9513.
DT Article

LA English

L4 ANSWER 14 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:431705 BIOSIS
DN PREV200200431705
TI Mammalian peptide transporters: New approaches for defining their physiological functions.
AU **Daniel, Hannelore (1)**; Rubio-Aliaga, Isabel (1)
CS (1) Department of Nutrition, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan Germany
SO Journal of Physiology (Cambridge), (February, 2002) Vol. 539P, pp. 6S. http://uk.cambridge.org/journals/phy/. print.
Meeting Info.: Scientific Meeting of the Physiological Society York, UK December 17-19, 2001
ISSN: 0022-3751.
DT Conference
LA English

L4 ANSWER 15 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:424274 BIOSIS
DN PREV200200424274
TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters.
AU Boll, Michael; Foltz, Martin; Rubio-Aliaga, Isabel; Kottra, Gabor; **Daniel, Hannelore (1)**
CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, D-85350, Freising, Weihenstephan: daniel@wzw.tum.de Germany
SO Journal of Biological Chemistry, (June 21, 2002) Vol. 277, No. 25, pp. 22966-22973. http://www.jbc.org/. print.
ISSN: 0021-9258.
DT Article
LA English

L4 ANSWER 16 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:337830 BIOSIS
DN PREV200200337830
TI Peptide transport in the mammary gland: Expression and distribution of PEPT2 mRNA and protein.
AU Groneberg, David A.; Doering, Frank; Theis, Stephan; Nickolaus, Monika; Fischer, Axel (1); **Daniel, Hannelore**
CS (1) Dept. of Pediatrics, Biomedical Research Center, Charite Humboldt-University, Augustenburger Platz 1, BMFZ Forum 4, D-13353, Berlin Germany
SO American Journal of Physiology, (May, 2002) Vol. 282, No. 5 Part 1, pp. E1172-E1179. http://www.ajpcon.org. print.
ISSN: 0002-9513.
DT Article
LA English

L4 ANSWER 17 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:273899 BIOSIS
DN PREV200200273899
TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is increased by Ca2+ channel blockers.
AU Wenzel, Uwe; Kuntz, Sabine; Diestel, Simone; **Daniel, Hannelore (1)**
CS (1) Department of Food and Nutrition, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@wzw.tum.de Germany

SO Antimicrobial Agents and Chemotherapy, (May, 2002) Vol. 46, No. 5, pp. 1375-1380. http://aac.asm.org/. print.
ISSN: 0066-4804.
DT Article
LA English

L4 ANSWER 18 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:217681 BIOSIS
DN PREV200200217681
TI Synthesis and characterization of high affinity inhibitors of the H+/peptide transporter PEPT2.
AU Theis, Stephan; Knuetter, Ilka; Hartrodt, Bianka; Brandsch, Matthias; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@wzw.tum.de Germany
SO Journal of Biological Chemistry, (March 1, 2002) Vol. 277, No. 9, pp. 7287-7292. http://www.jbc.org/. print.
ISSN: 0021-9258.
DT Article
LA English

L4 ANSWER 19 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:130042 BIOSIS
DN PREV200200130042
TI Defining minimal structural features in substrates of the H+/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives.
AU Theis, Stephan; Hartrodt, Bianka; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@wzw.tum Germany
SO Molecular Pharmacology, (January, 2002) Vol. 61, No. 1, pp. 214-221. http://molpharm.aspetjournals.org/. print.
ISSN: 0026-895X.
DT Article
LA English

L4 ANSWER 20 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:538818 BIOSIS
DN PREV200100538818
TI Bidirectional electrogenic transport of peptides by the proton-coupled carrier PEPT1 in Xenopus laevis oocytes: Its asymmetry and symmetry.
AU Kottra, Gabor (1); **Daniel, Hannelore**
CS (1) Institute of Nutrition, Hochfeldweg 2, D-85350, Freising-Weihenstephan: kottra@wzw.tum.de Germany
SO Journal of Physiology (Cambridge), (October 15th, 2001) Vol. 536, No. 2, pp. 495-503. print.
ISSN: 0022-3751.
DT Article
LA English
SL English

L4 ANSWER 21 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:494888 BIOSIS
DN PREV200100494888
TI Flavonoids with epidermal growth factor-receptor tyrosine kinase inhibitory activity stimulate PEPT1-mediated cefixime uptake into human intestinal epithelial cells.
AU Wenzel, Uwe; Kuntz, Sabine; **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@pollux.weihenstephan.de Germany

SO Journal of Pharmacology and Experimental Therapeutics, (October, 2001) Vol. 299, No. 1, pp. 351-357. print.
ISSN: 0022-3565.
DT Article
LA English
SL English

L4 ANSWER 22 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:475652 BIOSIS
DN PREV200100475652
TI Intestinal peptide transport: Ex vivo uptake studies and localization of peptide carrier PEPT1.
AU Groneberg, David A. (1); Doering, Frank; Eynott, Paul R.; Fischer, Axel; **Daniel, Hannelore**
CS (1) Biomedical Research Center, Dept. of Pediatrics, Charite Campus Virchow, Augustenburger Platz 1, 13353, Berlin Germany
SO American Journal of Physiology, (September, 2001) Vol. 281, No. 3 Part 1, pp. G697-G704. print.
ISSN: 0002-9513.
DT Article
LA English
SL English

L4 ANSWER 23 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:420196 BIOSIS
DN PREV200100420196
TI Expression of the myc/His-tagged human peptide transporter hPEPT1 in yeast for protein purification and functional analysis.
AU Theis, Stephan; Doering, Frank; **Daniel, Hannelore (1)**
CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@weihenstephan.de Germany
SO Protein Expression and Purification, (August, 2001) Vol. 22, No. 3, pp. 436-442. print.
ISSN: 1046-5928.
DT Article
LA English
SL English

L4 ANSWER 24 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:296233 BIOSIS
DN PREV200100296233
TI Expression of PEPT2 peptide transporter mRNA and protein in glial cells of rat dorsal root ganglia.
AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel, Hannelore**; Fischer, Axel (1)
CS (1) Biomedical Research Center, Dept. of Pediatrics, Humboldt-University, Augustenburger Platz 1, Charite Campus Virchow, BMFZ Forum 4, D-13353, Berlin: axel.fischer@charite.de Germany
SO Neuroscience Letters, (May 25, 2001) Vol. 304, No. 3, pp. 181-184. print.
ISSN: 0304-3940.
DT Article
LA English
SL English

L4 ANSWER 25 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.

AN 2001:231208 BIOSIS
DN PREV200100231208
TI A novel inhibitor of the mammalian peptide transporter PEPT1.
AU Knuetter, Ilka; Theis, Stephan; Hartrodt, Bianka; Born, Ilona; Brandsch, Matthias (1); **Daniel, Hannelore**; Neubert, Klaus
CS (1) Biozentrum, Martin-Luther-University Halle-Wittenberg, Weinbergweg 22, D-06120, Halle (Saale): brandsch@biozentrum.uni-halle.de Germany
SO Biochemistry, (April 10, 2001) Vol. 40, No. 14, pp. 4454-4458. print. ISSN: 0006-2960.
DT Article
LA English
SL English

L4 ANSWER 26 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:166109 BIOSIS
DN PREV200100166109
TI Nutrient transporter function studied in heterologous expression systems.
AU **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, 85350, Freising-Weihenstephan: daniel@weihenstephan.de Germany
SO Schulzke, Joerg-Dieter; Fromm, Michael; Riecken, Ernst-Otto; Binder, Henry J.. Annals of the New York Academy of Sciences, (December, 2000) Vol. 915, pp. 184-192. Annals of the New York Academy of Sciences. Epithelial transport and barrier function: Pathomechanisms in gastrointestinal disorders. print.
Publisher: New York Academy of Sciences 2 East 63rd Street, New York, NY, 10021, USA.
Meeting Info.: Epithelial Transport and Barrier Function: Pathomechanisms in Gastrointestinal Disorders Berlin, Germany March 26-27, 1999
ISSN: 0077-8923. ISBN: 1-57331-259-2 (cloth), 1-57331-260-6 (paper).
DT Book; Conference
LA English
SL English

L4 ANSWER 27 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:114641 BIOSIS
DN PREV200100114641
TI Localization of the peptide transporter PEPT2 in the lung: Implications for pulmonary oligopeptide uptake.
AU Groneberg, David A.; Nickolaus, Monika; Springer, Jochen; Doering, Frank; **Daniel, Hannelore**; Fischer, Axel (1)
CS (1) Dept. of Pediatric Pneumology and Immunology, Charite-Virchow Klinikum, Humboldt-University, Augustenburger Platz 1, D-13353, Berlin: axel.fischer@charite.de Germany
SO American Journal of Pathology, (February, 2001) Vol. 158, No. 2, pp. 707-714. print.
ISSN: 0002-9440.
DT Article
LA English
SL English

L4 ANSWER 28 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:84521 BIOSIS
DN PREV200100084521
TI PEPT1-mediated uptake of dipeptides enhances the intestinal absorption of

amino acids via transport system b0.
AU Wenzel, Uwe; Meissner, Barbara; Doering, Frank; **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350, Freising-Weihenstephan: daniel@pollux.weihenstephan.de Germany
SO Journal of Cellular Physiology, (February, 2001) Vol. 186, No. 2, pp. 251-259. print.
ISSN: 0021-9541.
DT Article
LA English
SL English

L4 ANSWER 29 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:22318 BIOSIS
DN PREV200100022318
TI Characterisation of the H+/peptide cotransporter of eel intestinal brush-border membranes.
AU Verri, Tiziano (1); Maffia, Michele; Danieli, Antonio; Herget, Martina; Wenzel, Uwe; **Daniel, Hannelore**; Storelli, Carlo
CS (1) Laboratory of General Physiology, Department of Biology, University of
Lecce, Strada Provinciale Lecce-Monteroni, I-73100, Lecce: physiol@ultra5.unile.it Italy
SO Journal of Experimental Biology, (October, 2000) Vol. 203, No. 19, pp. 2991-3001. print.
ISSN: 0022-0949.
DT Article
LA English
SL English

L4 ANSWER 30 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:478619 BIOSIS
DN PREV200000478619
TI Cloning and characterization of the gene encoding the mouse peptide transporter PEPT2.
AU Rubio-Aliaga, Isabel; Boll, Michael; **Daniel, Hannelore (1)**
CS (1) Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical
University of Munich, Hochfeldweg 2, D-85350, Freising, Weihenstephan Germany
SO Biochemical and Biophysical Research Communications, (September 24, 2000) Vol. 276, No. 2, pp. 734-741. print.
ISSN: 0006-291X.
DT Article
LA English
SL English

L4 ANSWER 31 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:465479 BIOSIS
DN PREV200000465479
TI Offline coupling of low-pressure anion-exchange chromatography with MALDI-MS to determine the elution order of human milk oligosaccharides.
AU Finke, Berndt; Mank, Marko; **Daniel, Hannelore**; Stahl, Bernd (1)
CS (1) Group Germany, Numico Research, D-61381, Friedrichsdorf Germany
SO Analytical Biochemistry, (September 10, 2000) Vol. 284, No. 2, pp. 256-265. print.
ISSN: 0003-2697.
DT Article
LA English
SL English

L4 ANSWER 32 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:373488 BIOSIS
DN PREV200000373488
TI Dietary flavone is a potent apoptosis inducer in human colon carcinoma cells.
AU Wenzel, Uwe (1); Kuntz, Sabine; Brendel, Mathias D.; **Daniel, Hannelore**
CS (1) Institute of Nutritional Sciences, Hochfeldweg 2, D-85350, Freising-Weihenstephan Germany
SO Cancer Research, (July 15, 2000) Vol. 60, No. 14, pp. 3823-3831. print. ISSN: 0008-5472.
DT Article
LA English
SL English

L4 ANSWER 33 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:340683 BIOSIS
DN PREV200000340683
TI Human milk oligosaccharides are resistant to enzymatic hydrolysis in the upper gastrointestinal tract.
AU Engfer, Meike B.; Stahl, Bernd; Finke, Berndt; Sawatzki, Guenther; **Daniel, Hannelore (1)**
CS (1) Institute of Nutritional Sciences, Technical University of Munich, Hochfeldweg 2, D-85350, Freising-Weihenstephan Germany
SO American Journal of Clinical Nutrition, (June, 2000) Vol. 71, No. 6, pp. 1589-1596. print.
ISSN: 0002-9165.
DT Article
LA English
SL English

L4 ANSWER 34 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:152629 BIOSIS
DN PREV199900152629
TI Molecular cloning and functional characterization of the oligopeptide transporter PepT2 from mouse kidney.
AU Rubio-Aliaga, Isabel (1); Herget, Martina; Boll, Michael; **Daniel, Hannelore**
CS (1) Univ. Giesen, Inst. Nutr. Sci., Biochem. Unit, Wilhelmstr. 20, D-35392
Giessen Germany
SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78,
No. 306, pp. 361-362. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.
Publisher: Deutsche Akademie der Naturforscher Leopoldina
August-Bebel-Strasse 50a, Halle (Saale), Germany.
Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997
Deutsche Akademie der Naturforscher Leopoldina
. ISSN: 0369-5034. ISBN: 3-335-00574-0.
DT Conference
LA English

L4 ANSWER 35 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:152625 BIOSIS
DN PREV199900152625
TI H+/peptide cotransport into renal LLC-PK1 cells and its protein kinase C

dependent regulation.
AU Herget, Martina (1); Diehl, Daniela; Wenzel, Uwe; **Daniel, Hannelore**
CS (1) Univ. Giessen, Inst. Nutr. Sci., Biochem. Unit, Wilhelmstr. 20, D-35392 Giessen Germany
SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78, No. 306, pp. 353-354. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.
Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.
Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997
Deutsche Akademie der Naturforscher Leopoldina
. ISSN: 0369-5034. ISBN: 3-335-00574-0.
DT Conference
LA English

L4 ANSWER 36 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:152611 BIOSIS
DN PREV199900152611
TI The aminoterminal region of the renal peptide transporter Pept2 determines its high substrate affinity.
AU Doering, Frank (1); Walter, Judith; Foecking, Melanie; Amasheh, Salah; **Daniel, Hannelore**
CS (1) Biochem. Unit, Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany
SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78, No. 306, pp. 269-274. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.
Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.
Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997
Deutsche Akademie der Naturforscher Leopoldina
. ISSN: 0369-5034. ISBN: 3-335-00574-0.
DT Book; Conference
LA English
SL English; German

L4 ANSWER 37 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:152602 BIOSIS
DN PREV199900152602
TI Mechanisms of renal peptide transport.
AU **Daniel, Hannelore (1)**; Doering, Frank; Herget, Martina; Wenzel, Uwe
CS (1) Biochem. Unit, Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany
SO Fleck, C.; Klinger, W.; Mueller, D.. Nova Acta Leopoldina, (1998) Vol. 78, No. 306, pp. 195-200. Nova Acta Leopoldina; Renal and hepatic transport - similarities and differences.
Publisher: Deutsche Akademie der Naturforscher Leopoldina August-Bebel-Strasse 50a, Halle (Saale), Germany.
Meeting Info.: European Symposium of the European Society of Biochemical Pharmacology, the Friedrich Schiller University Jena, and the Deutsche

Akademie der Naturforscher Leopoldina Halle, Germany October 6-7, 1997
Deutsche Akademie der Naturforscher Leopoldina
. ISSN: 0369-5034. ISBN: 3-335-00574-0.
DT Book; Conference
LA English
SL English; German

L4 ANSWER 38 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:136372 BIOSIS
DN PREV199900136372
TI Regulation of the high-affinity H+/peptide cotransporter in renal LLC-PK1 cells.
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sciences, Wilhelmstr. 20, 35392 Giessen Germany
SO Journal of Cellular Physiology, (March, 1999) Vol. 178, No. 3, pp. 341-348.
ISSN: 0021-9541.
DT Article
LA English

L4 ANSWER 39 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:59006 BIOSIS
DN PREV199900059006
TI Endogenous expression of the reneal high-affinity H+-peptide cotransporter
in LLC-PK1 cells.
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; **Daniel, Hannelore (1)**
CS (1) Inst. Nutr. Sci., Wilhelmstr. 20, 35392 Giessen Germany
SO American Journal of Physiology, (Dec., 1998) Vol. 275, No. 6 PART 1, pp. C1573-C1579.
ISSN: 0002-9513.
DT Article
LA English

L4 ANSWER 40 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:475920 BIOSIS
DN PREV199800475920
TI Use of the glyceraldehyde-3 phosphate dehydrogenase promoter for production of functional mammalian membrane transport proteins in the Yeast Pichia pastoris.
AU Doering, Frank; Klapper, Maja; Theis, Stephan; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sciences, Justus-Liebig-Univ. Giessen, Wilhelmstrasse 10, 35392 Giessen Germany
SO Biochemical and Biophysical Research Communications, (Sept. 18, 1998) Vol. 250, No. 2, pp. 531-535.
ISSN: 0006-291X.
DT Article
LA English

L4 ANSWER 41 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:473021 BIOSIS
DN PREV199800473021
TI Minimal molecular determinants of substrates for recognition by the intestinal peptide transporter.
AU Doering, Frank; Will, Jutta; Amasheh, Salah; Clauss, Wolfgang; Ahlbrecht, Hubertus; **Daniel, Hannelore (1)**

CS (1) Univ. Giessen, Inst. Nutritional Sci., Wilhelmstrasse 20, D-35392 Giessen Germany
SO Journal of Biological Chemistry, (Sept. 4, 1998) Vol. 273, No. 36, pp. 23211-23218.
ISSN: 0021-9258.
DT Article
LA English

L4 ANSWER 42 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:430337 BIOSIS
DN PREV199800430337
TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast Pichia pastoris and applications of the yeast system for functional analysis.
AU Doering, Frank; Michel, Tiana; Roesel, Annette; Nickolaus, Monika; **Daniel, Hannelore (1)**
CS (1) Inst. Nutr. Sci., Univ. Giessen, Wilhelmstr. 20, D-35392 Giessen Germany
SO Molecular Membrane Biology, (April-June, 1998) Vol. 15, No. 2, pp. 79-88.
ISSN: 0968-7688.
DT Article
LA English

L4 ANSWER 43 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:368029 BIOSIS
DN PREV199800368029
TI Delta-aminolevulinic acid transport by intestinal and renal peptide transporters and its physiological and clinical implications.
AU Doering, Frank; Walter, Judith; Will, Jutta; Foecking, Melanie; Boll, Michael; Amasheh, Salah; Clauss, Wolfgang; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstr. 20, 35392 Giessen Germany
SO Journal of Clinical Investigation, (June 15, 1998) Vol. 101, No. 12, pp. 2761-2767.
ISSN: 0021-9738.
DT Article
LA English

L4 ANSWER 44 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:204249 BIOSIS
DN PREV199800204249
TI Characterization of peptide transport mediated by PepT2 in renal LLC-PK1 cells.
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel, Hannelore**
CS Univ. Giessen, Inst. Nutr. Sci., Biochem. Unit, D-35392 Giessen Germany
SO FASEB Journal, (March 20, 1998) Vol. 12, No. 5, pp. A1015.
Meeting Info.: Annual Meeting of the Professional Research Scientists on Experimental Biology 98, Part II San Francisco, California, USA April 18-22, 1998 Federation of American Societies for Experimental Biology . ISSN: 0892-6638.
DT Conference
LA English

L4 ANSWER 45 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:522515 BIOSIS
DN PREV199799821718
TI Electrophysiological analysis of the function of the mammalian renal peptide transporter expressed in Xenopus laevis oocytes.

AU Amasheh, Salah; Wenzel, Uwe; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, D-35392 Giessen Germany
SO Journal of Physiology (Cambridge), (1997) Vol. 504, No. 1, pp. 169-174. ISSN: 0022-3751.
DT Article
LA English

L4 ANSWER 46 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:408815 BIOSIS
DN PREV199799715018
TI Cellular and molecular mechanisms of renal peptide transport.
AU **Daniel, Hannelore (1)**; Herget, Martina
CS (1) Biochemistry Nutr. Unit, Inst. Nutr. Sci., Univ. Giessen, Wilhelmstrasse 20, D-35392 Giessen Germany
SO American Journal of Physiology, (1997) Vol. 273, No. 1 PART 2, pp. F1-F8.
ISSN: 0002-9513.
DT General Review
LA English

L4 ANSWER 47 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:199640 BIOSIS
DN PREV199799498843
TI Expression and functional characterization of the mammalian intestinal peptide transporter PepT1 in the methylotrophic yeast Pichia pastoris.
AU Doring, Frank; Theis, Stephan; **Daniel, Hannelore (1)**
CS (1) Inst. Nutr. Sci., Justus-Liebig-University Giessen, Wilhelmstrasse 20, D-35392 Giessen Germany
SO Biochemical and Biophysical Research Communications, (1997) Vol. 232, No. 3, pp. 656-662.
ISSN: 0006-291X.
DT Article
LA English

L4 ANSWER 48 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:151110 BIOSIS
DN PREV199799450313
TI First insights into the operational mode of epithelial peptide transporters.
AU **Daniel, Hannelore**
CS Inst. Nutr. Sci., Univ. Giessen, D-35392 Giessen Germany
SO Journal of Physiology (Cambridge), (1997) Vol. 498, No. 3, pp. 561. ISSN: 0022-3751.
DT Journal; Article
LA English

L4 ANSWER 49 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:82220 BIOSIS
DN PREV199799373933
TI Functional analysis of a chimeric mammalian peptide transporter derived from the intestinal and renal isoforms.
AU Doering, Fran; Dorn, Daniela; Bachfischr, Ulla; Amasheh, Salah; Haget, Martina; **Daniel, Hannelore**
CS Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, D-35392 Giessen Germany
SO Journal of Physiology (Cambridge), (1996) Vol. 497, No. 3, pp. 773-779. ISSN: 0022-3751.

DT Article
LA English

L4 ANSWER 50 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1996:434958 BIOSIS
DN PREV199699148564
TI The peptide-based thrombin inhibitor CRC 220 is a new substrate of the basolateral rat liver organic anion-transporting polypeptide 380-384.
AU Eckhardt, Uta; Horz, Juergen A.; Petzinger, Ernst (1); Stueber, Werner; Reers, Martin; Dickneite, Gerhard; **Daniel, Hannelore**; Wagener, Meike; Hagenbuch, Bruno; Stieger, Bruno; Meier, Peter J.
CS (1) Inst. Pharmacol. Toxicol., Justus-Liebig-University, Frankfurter Strasse 107, D-35392 Giessen Germany
SO Hepatology, (1996) Vol. 24, No. 2, pp. 380-384.
ISSN: 0270-9139.
DT Article
LA English

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L4 ANSWER 51 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1996:288449 BIOSIS
DN PREV199699010805
TI Transport characteristics of differently charged cephalosporin antibiotics
in oocytes expressing the cloned intestinal peptide transporter PepT1 and in human intestinal Caco-2 cells.
AU Wenzel, Uwe; Gebert, Ingo; Weintraut, Horst; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sci., Univ. Giessen, Wilhelmstrasse 20, 35392 Giessen Germany
SO Journal of Pharmacology and Experimental Therapeutics, (1996) Vol. 277, No. 2, pp. 831-839.
ISSN: 0022-3565.
DT Article
LA English

L4 ANSWER 52 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1996:32618 BIOSIS
DN PREV199698604753
TI Stereoselective uptake of beta-lactam antibiotics by the intestinal peptide transporter.
AU Wenzel, Uwe; Thwaites, David T.; **Daniel, Hannelore (1)**
CS (1) Inst. Nutritional Sci., University Giessen, Wilhelmstrasse 20, 35392 Giessen Germany
SO British Journal of Pharmacology, (1995) Vol. 116, No. 7, pp. 3021-3027.
ISSN: 0007-1188.
DT Article
LA English

L4 ANSWER 53 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1995:455599 BIOSIS
DN PREV199598469899
TI Selective effect of zinc on uphill transport of oligopeptides into kidney brush border membrane vesicles.
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)
CS (1) Clinical Nutrition Research Unit, Montefiore Univ. Hosp., Univ. Pittsburgh Med. Center, 200 Lothrop St., Pittsburgh, PA 15213-2582 USA
SO FASEB Journal, (1995) Vol. 9, No. 11, pp. 1112-1117.

ISSN: 0892-6638.
DT Article
LA English

L4 ANSWER 54 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1995:182794 BIOSIS
DN PREV199598197094
TI Target size analysis of the peptide/H+-symporter in kidney brush-border membranes.
AU Boll, Michael; **Daniel, Hannelore (1)**
CS (1) Inst. Nutr. Sci., Biochem. Nutr. Unit, Justus-Liebig-Univ. Giessen, Wilhelmstrasse 20, 35392 Giessen Germany
SO Biochimica et Biophysica Acta, (1995) Vol. 1233, No. 2, pp. 145-152.
ISSN: 0006-3002.
DT Article
LA English

L4 ANSWER 55 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1995:74687 BIOSIS
DN PREV199598088987
TI Transport of Cefadroxil in Rat Kidney Brush-border Membranes is Mediated by Two Electrogenic H+-Coupled Systems.
AU Ries, Michela; Wenzel, Uwe; **Daniel, Hannelore (1)**
CS (1) Biochem. Nutr. Unit, Inst. Nutr. Sci., Wilhelmstrasse 20, 35392 Giessen Germany
SO Journal of Pharmacology and Experimental Therapeutics, (1994) Vol. 271, No. 3, pp. 1327-1333.
ISSN: 0022-3565.
DT Article
LA English

L4 ANSWER 56 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:413894 BIOSIS
DN PREV199497426894
TI Functional separation of dipeptide transport and hydrolysis in kidney brush broder membrane vesicles.
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)
CS (1) Clin. Nutr. Res. Unit, Montefiore Univ. Hosp., Univ. Pittsburgh Med. Cent., 200 Lothrop St., Pittsburgh, PA 15213-2582 USA
SO FASEB Journal, (1994) Vol. 8, No. 10, pp. 753-759.
ISSN: 0892-6638.
DT General Review
LA English

L4 ANSWER 57 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:13956 BIOSIS
DN PREV199497026956
TI Transport of beta-lactam antibiotics in kidney brush border membrane: Determinants of their affinity for the oligopeptide/H+ symporter.
AU **Daniel, Hannelore**; Adibi, Siamak A. (1)
CS (1) Clin. Nutr. Res. Unit, Montefiore Univ. Hosp., UPMC, 220 Lothrop St., Pittsburgh, PA 15213-2582 USA
SO Journal of Clinical Investigation, (1993) Vol. 92, No. 5, pp. 2215-2223.
ISSN: 0021-9738.
DT Article
LA English

L4 ANSWER 58 OF 136 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1993:180403 BIOSIS
DN PREV199344088003

TI Removal of glycylglutamine from plasma by individual tissues: Mechanism and impact on amino acid fluxes in postabsorption and starvation.
AU Adibi, Siamak A. (1); Lochs, Herbert; Abumrad, Naji N.; **Daniel, Hannelore**; Vazquez, Jorge A.
CS (1) Clinical Nutrition Res. Unit, Montefiore University Hospial, 3459 Fifth Ave., Pittsburgh, PA 15213 USA
SO Journal of Nutrition, (1993) Vol. 123, No. SUPPL. 2, pp. 325-331. Meeting Info.: American Institute of Nutrition Annual Meeting Anaheim, California, USA April 5-9, 1992
ISSN: 0022-3166.
DT Article
LA English

L4 ANSWER 59 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2003:59054 CAPLUS
TI Diet, gene expression, and apoptosis: clues to cancer prevention?
AU **Daniel, Hannelore**; Wenzel, Uwe
CS Department of Food and Nutrition Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, Germany
SO Nestle Nutrition Workshop Series, Pediatric Program (2003), 50(Genetic Expression and Nutrition), 239-262
CODEN: NNWSAQ
PB Lippincott Williams & Wilkins
DT Journal
LA English

L4 ANSWER 60 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:720539 CAPLUS
DN 138:1391
TI PEPT1 as a Paradigm for Membrane Carriers That Mediate Electrogenic Bidirectional Transport of Anionic, Cationic, and Neutral Substrates
AU Kottra, Gabor; Stamfort, Adelmar; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Journal of Biological Chemistry (2002), 277(36), 32683-32691
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 61 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:701540 CAPLUS
TI Mammalian peptide transporters as targets for drug delivery
AU Rubio-Aliaga, Isabel; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Freising, D-85350, Germany
SO Trends in Pharmacological Sciences (2002), 23(9), 434-440
CODEN: TPHSDY; ISSN: 0165-6147
PB Elsevier Science Ltd.
DT Journal
LA English
RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 62 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:635323 CAPLUS
TI Renal Assimilation of Short Chain Peptides: Visualization of Tubular Peptide Uptake

AU Groneberg, David A.; Doering, Frank; Nickolaus, Monika; **Daniel, Hannelore**; Fischer, Axel
CS Department of Pediatric Pneumology and Immunology, Humboldt-University, Berlin, D-13353, Germany
SO Pharmaceutical Research (2002), 19(8), 1209-1214
CODEN: PHREEB; ISSN: 0724-8741
PB Kluwer Academic/Plenum Publishers
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 63 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:544877 CAPLUS
DN 137:292077
TI H+-peptide cotransport in the human bile duct epithelium cell line SK-ChA-1
AU Knutter, Ilka; Rubio-Aliaga, Isabel; Boll, Michael; Hause, Gerd; **Daniel, Hannelore**; Neubert, Klaus; Brandsch, Matthias
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology and Biozentrum of the Martin Luther University Halle-Wittenberg, Halle, D-06120, Germany
SO American Journal of Physiology (2002), 283(1, Pt. 1), G222-G229
CODEN: AJPHAP; ISSN: 0002-9513
PB American Physiological Society
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 64 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:505812 CAPLUS
DN 137:307728
TI Functional characterization of two novel mammalian electrogenic proton-dependent amino acid cotransporters
AU Boll, Michael; Foltz, Martin; Rubio-Aliaga, Isabel; Kottra, Gabor; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Sciences, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Journal of Biological Chemistry (2002), 277(25), 22966-22973
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 65 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:371710 CAPLUS
DN 137:152889
TI Peptide transport in the mammary gland: expression and distribution of PEPT2 mRNA and protein
AU Groneberg, David A.; Doring, Frank; Theis, Stephan; Nickolaus, Monika; Fischer, Axel; **Daniel, Hannelore**
CS Dept. of Pediatric Pneumology and Immunology, Charite, Humboldt-University, Berlin, D-13353, Germany
SO American Journal of Physiology (2002), 282(5, Pt. 1), E1172-E1179
CODEN: AJPHAP; ISSN: 0002-9513
PB American Physiological Society
DT Journal

LA English
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 66 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:316741 CAPLUS
DN 137:241645
TI PEPT1-mediated cefixime uptake into human intestinal epithelial cells is increased by Ca2+ channel blockers
AU Wenzel, Uwe; Kuntz, Sabine; Diestel, Simone; **Daniel, Hannelore**
CS Department of Food and Nutrition, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Antimicrobial Agents and Chemotherapy (2002), 46(5), 1375-1380
CODEN: AMACCQ; ISSN: 0066-4804
PB American Society for Microbiology
DT Journal
LA English
RE.CNT 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 67 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:209611 CAPLUS
DN 136:336800
TI Synthesis and characterization of high affinity inhibitors of the H+/peptide transporter PEPT2
AU Theis, Stephan; Knutter, Ilka; Hartrodt, Bianka; Brandsch, Matthias; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Journal of Biological Chemistry (2002), 277(9), 7287-7292
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 68 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:165155 CAPLUS
DN 137:231951
TI Special Issue: Acid-Base Metabolism. Nutrition, Health, Disease. [In: Eur.
J. Nutr., 2001; 40(5)]
AU Vormann, Juergen; **Daniel, Hannelore**; Editors
CS Germany
SO (2001) Publisher: (Steinkopff Verlag, Darmstadt, Germany), 72 pp.
DT Book
LA English

L4 ANSWER 69 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2002:5323 CAPLUS
DN 136:195844
TI Defining minimal structural features in substrates of the H+/peptide cotransporter PEPT2 using novel amino acid and dipeptide derivatives
AU Theis, Stephan; Hartrodt, Bianka; Kottra, Gabor; Neubert, Klaus; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, Germany
SO Molecular Pharmacology (2002), 61(1), 214-221
CODEN: MOPMA3; ISSN: 0026-895X

PB American Society for Pharmacology and Experimental Therapeutics
DT Journal
LA English
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 70 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:888295 CAPLUS
DN 136:82998
TI Bidirectional electrogenic transport of peptides by the proton-coupled carrier PEPT1 in Xenopus laevis oocytes: its asymmetry and symmetry
AU Kottra, Gabor; **Daniel, Hannelore**
CS Molecular Nutrition Unit, Institute of Nutritional Science, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Journal of Physiology (Cambridge, United Kingdom) (2001), 536(2), 495-503
CODEN: JPHYA7; ISSN: 0022-3751
PB Cambridge University Press
DT Journal
LA English
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 71 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:711680 CAPLUS
DN 136:112583
TI Flavonoids with epidermal growth factor-receptor tyrosine kinase inhibitory activity stimulate PEPT1-mediated cefixime uptake into human intestinal epithelial cells
AU Wenzel, Uwe; Kuntz, Sabine; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, Germany
SO Journal of Pharmacology and Experimental Therapeutics (2001), 299(1), 351-357
CODEN: JPETAB; ISSN: 0022-3565
PB American Society for Pharmacology and Experimental Therapeutics
DT Journal
LA English
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 72 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:694446 CAPLUS
DN 136:3330
TI Intestinal peptide transport: ex vivo uptake studies and localization of peptide carrier PEPT1
AU Groneberg, David A.; Doring, Frank; Eynott, Paul R.; Fischer, Axel; **Daniel, Hannelore**
CS Department of Pediatrics, Humboldt University, Berlin, 13353, Germany
SO American Journal of Physiology (2001), 281(3, Pt. 1), G697-G704
CODEN: AJPHAP; ISSN: 0002-9513
PB American Physiological Society
DT Journal
LA English
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 73 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:626002 CAPLUS
DN 135:185492
TI Flavones for the treatment of COX-2 and/or NF.kappa.B-mediated diseases

IN Wenzel, Uwe; **Daniel, Hannelore**
PA Basf A. -G., Germany
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001233768	A2	20010828	JP 2001-49370	20010223
	EP 1127572	A2	20010829	EP 2001-103200	20010212
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 2001046963	A1	20011129	US 2001-782306	20010214
	CN 1318371	A	20011024	CN 2001-116513	20010225
PRAI	US 2000-185179P	P	20000225		

OS MARPAT 135:185492

L4 ANSWER 74 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:558455 CAPLUS
DN 135:192452
TI Expression of the myc/his-tagged human peptide transporter hPEPT1 in yeast
for protein purification and functional analysis
AU Theis, Stephan; Doring, Frank; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, D-85350, Germany
SO Protein Expression and Purification (2001), 22(3), 436-442
CODEN: PEXPEJ; ISSN: 1046-5928
PB Academic Press
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 75 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:172549 CAPLUS
DN 134:362946
TI A Novel Inhibitor of the Mammalian Peptide Transporter PEPT1
AU Knuetter, Ilka; Theis, Stephan; Hartrodt, Bianka; Born, Ilona; Brandsch, Matthias; **Daniel, Hannelore**; Neubert, Klaus
CS Institute of Biochemistry, Department of Biochemistry/Biotechnology, and Biozentrum, Martin-Luther-University Halle-Wittenberg, Halle, Germany
SO Biochemistry (2001), 40(14), 4454-4458
CODEN: BICHAW; ISSN: 0006-2960
PB American Chemical Society
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 76 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:151568 CAPLUS
DN 135:164964
TI Localization of the peptide transporter PEPT2 in the lung: Implications for pulmonary oligopeptide uptake
AU Groneberg, David A.; Nickolaus, Monika; Springer, Jochen; Doring, Frank; **Daniel, Hannelore**; Fischer, Axel
CS Institute of Anatomy and Cell Biology, University of Giessen, Giessen, Germany

SO American Journal of Pathology (2001), 158(2), 707-714
CODEN: AJPAA4; ISSN: 0002-9440
PB American Society for Investigative Pathology
DT Journal
LA English
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 77 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:70441 CAPLUS
DN 134:176004
TI Nutrient transporter function studied in heterologous expression systems
AU **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Technical University of Munich, Freising-Weihenstephan, 85350, Germany
SO Annals of the New York Academy of Sciences (2000), 915(Epithelial Transport and Barrier Function), 184-192
CODEN: ANYAA9; ISSN: 0077-8923
PB New York Academy of Sciences
DT Journal; General Review
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 78 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2001:40673 CAPLUS
DN 134:176091
TI PEPT1-mediated uptake of dipeptides enhances the intestinal absorption of amino acids via transport system b0,+
AU Wenzel, Uwe; Meissner, Barbara; Doring, Frank; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising-Weihenstephan, Germany
SO Journal of Cellular Physiology (2001), 186(2), 251-259
CODEN: JCLLAX; ISSN: 0021-9541
PB Wiley-Liss, Inc.
DT Journal
LA English
RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 79 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:859956 CAPLUS
DN 135:243
TI Food derived flavonoids that affect proliferation, differentiation and apoptosis in human colon carcinoma cells and their mode of action
AU Wenzel, Uwe; Kuntz, Sabine; Storcksdieck, Stefan; De Sousa, Ulrike Jambor;
Daniel, Hannelore
CS Germany
SO Carcinogenic and Anticarcinogenic Factors in Food, Symposium ["Carcinogenic/Anticarcinogenic Factors in Food: Novel Concepts?"], 3rd, Kaiserslautern, Germany, Oct. 4-7, 1998 (2000), Meeting Date 1998, 513-518. Editor(s): Eisenbrand, Gerhard. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany.
CODEN: 69ARS4
DT Conference
LA English
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 80 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:838609 CAPLUS
DN 134:144726
TI Characterization of the H+/peptide cotransporter of eel intestinal brush-border membranes
AU Verri, Tiziano; Maffia, Michele; Danieli, Antonio; Herget, Martina; Wenzel, Uwe; **Daniel, Hannelore**; Storelli, Carlo
CS Laboratory of General Physiology, Department of Biology, University of Lecce, Lecce, I-73100, Italy
SO Journal of Experimental Biology (2000), 203(19), 2991-3001
CODEN: JEBIAM; ISSN: 0022-0949
PB Company of Biologists Ltd.
DT Journal
LA English
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 81 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:717876 CAPLUS
DN 134:188824
TI Cloning and characterization of the gene encoding the mouse peptide transporter PEPT2
AU Rubio-Aliaga, Isabel; Boll, Michael; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Molecular Nutrition Unit, Technical University of Munich, Freising, D-85350, Germany
SO Biochemical and Biophysical Research Communications (2000), 276(2), 734-741
CODEN: BBRCA9; ISSN: 0006-291X
PB Academic Press
DT Journal
LA English
RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 82 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:605310 CAPLUS
DN 134:39076
TI Off line Coupling of Low-Pressure Anion-Exchange Chromatography with MALDI-MS to Determine the Elution Order of Human Milk Oligosaccharides
AU Finke, Berndt; Mank, Marko; **Daniel, Hannelore**; Stahl, Bernd
CS Numico Research, Group Germany, Friedrichsdorf, D-61381, Germany
SO Analytical Biochemistry (2000), 284(2), 256-265
CODEN: ANBCA2; ISSN: 0003-2697
PB Academic Press
DT Journal
LA English
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 83 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:525757 CAPLUS
DN 133:222005
TI Dietary flavone is a potent apoptosis inducer in human colon carcinoma cells
AU Wenzel, Uwe; Kuntz, Sabine; Brendel, Mathias D.; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany
SO Cancer Research (2000), 60(14), 3823-3831
CODEN: CNREA8; ISSN: 0008-5472
PB American Association for Cancer Research

DT Journal
LA English
RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 84 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 2000:395421 CAPLUS
DN 133:149906
TI Human milk oligosaccharides are resistant to enzymatic hydrolysis in the upper gastrointestinal tract
AU Engfer, Meike B.; Stahl, Bernd; Finke, Berndt; Sawatzki, Guenther; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Germany
SO American Journal of Clinical Nutrition (2000), 71(6), 1589-1596
CODEN: AJCNAC; ISSN: 0002-9165
PB American Society for Clinical Nutrition
DT Journal
LA English
RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 85 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1999:441705 CAPLUS
DN 131:213279
TI Analysis of High-Molecular-Weight Oligosaccharides from Human Milk by Liquid Chromatography and MALDI-MS
AU Finke, Berndt; Stahl, Bernd; Pfenninger, Anja; Karas, Michael; **Daniel, Hannelore**; Sawatzki, Guenther
CS Milupa Research, Milupa GmbH Company KG, Friedrichsdorf, D-61381, Germany
SO Analytical Chemistry (1999), 71(17), 3755-3762
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 86 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1999:183449 CAPLUS
DN 130:181786
TI Hormonally Active Agents in Food: Symposium, held at University of Kaiserslautern, 6-9 October 1996.
AU Eisenbrand, Gerhard; **Daniel, Hannelore**; Dayan, Anthony David; Elias, Peter Stefan; Grunow, Werner; Kemper, Fritz H.; Loeser, Eckhard; Metzler, Manfred; Schlatter, Josef
CS Germany
SO (1998) Publisher: (Wiley-VCH Verlag GmbH, Weinheim, Germany), 263 pp.
DT Book
LA English

L4 ANSWER 87 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1999:123837 CAPLUS
DN 130:320600
TI Regulation of the high-affinity H+/peptide cotransporter in renal LLC-PK1 cells
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; Kuntz, Sabine; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany
SO Journal of Cellular Physiology (1999), 178(3), 341-348

CODEN: JCLLAX; ISSN: 0021-9541
PB Wiley-Liss, Inc.
DT Journal
LA English
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 88 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1999:15564 CAPLUS
DN 130:151377
TI Endogenous expression of the renal high-affinity H+-peptide cotransporter in LLC-PK1 cells
AU Wenzel, Uwe; Diehl, Daniela; Herget, Martina; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany
SO American Journal of Physiology (1998), 275(6, Pt. 1), C1573-C1579
CODEN: AJPHAP; ISSN: 0002-9513
PB American Physiological Society
DT Journal
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 89 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:628794 CAPLUS
DN 130:951
TI Use of the glyceraldehyde-3-phosphate dehydrogenase promoter for production of functional mammalian membrane transport proteins in the yeast Pichia pastoris
AU Doring, Frank; Klapper, Maja; Theis, Stephan; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO Biochemical and Biophysical Research Communications (1998), 250(2), 531-535
CODEN: BBRCA9; ISSN: 0006-291X
PB Academic Press
DT Journal
LA English
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 90 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:592721 CAPLUS
DN 129:312693
TI Minimal molecular determinants of substrates for recognition by the intestinal peptide transporter
AU Doring, Frank; Will, Jutta; Amasheh, Salah; Clauss, Wolfgang; Ahlbrecht, Hubertus; **Daniel, Hannelore**
CS Inst. Nutritional Sci., Univ. Giessen, Giessen, D-35392, Germany
SO Journal of Biological Chemistry (1998), 273(36), 23211-23218
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 91 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:546469 CAPLUS
DN 129:273576

TI The aminoterminal region of the renal peptide transporter Pept2 determines
its high substrate affinity
AU Doring, Frank; Walter, Judith; Focking, Melanie; Amasheh, Salah; **Daniel, Hannelore**
CS Biochemistry Unit, Inst. Nutritional Sciences, Univ. Giessen, D-35392, Germany
SO Nova Acta Leopoldina (1998), 78(306, Renal and Hepatic Transport--Similarities and Differences), 269-274
CODEN: NOALA4; ISSN: 0369-5034
PB Deutsche Akademie der Naturforscher Leopoldina
DT Journal
LA German

L4 ANSWER 92 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:546093 CAPLUS
DN 129:288035
TI Mechanisms of renal peptide transport
AU **Daniel, Hannelore**; Doring, Frank; Herget, Martina; Wenzel, Uwe
CS Biochemistry Unit, Inst. Nutritional Sciences, Univ. Giessen, Giessen, D-35392, Germany
SO Nova Acta Leopoldina (1998), 78(306, Renal and Hepatic Transport--Similarities and Differences), 195-200
CODEN: NOALA4; ISSN: 0369-5034
PB Deutsche Akademie der Naturforscher Leopoldina
DT Journal; General Review
LA English

L4 ANSWER 93 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:533878 CAPLUS
DN 129:215745
TI Expression of the mammalian renal peptide transporter PEPT2 in the yeast Pichia pastoris and applications of the yeast system for functional analysis
AU Doring, Frank; Michel, Tiana; Rosel, Annette; Nickolaus, Monika; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO Molecular Membrane Biology (1998), 15(2), 79-88
CODEN: MMEBE7; ISSN: 0968-7688
PB Taylor & Francis Ltd.
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 94 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:400187 CAPLUS
DN 129:94859
TI Delta-aminolevulinic acid transport by intestinal and renal peptide transporters and its physiological and clinical implications
AU Doring, Frank; Walter, Judith; Will, Jutta; Focking, Melanie; Boll, Michael; Amasheh, Salah; Clauss, Wolfgang; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, 35392, Germany
SO Journal of Clinical Investigation (1998), 101(12), 2761-2767
CODEN: JCINAO; ISSN: 0021-9738
PB Rockefeller University Press
DT Journal
LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 95 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1998:117614 CAPLUS
DN 128:215682
TI Intestinal and renal transport of peptides at the cellular and molecular level
AU **Daniel, Hannelore**; Herget, Martina
CS Biochemistry of Nutrition Unit, Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO Portland Press Proceedings (1998), 11(Peptides in Mammalian Protein Metabolism), 91-102
CODEN: POPPEF; ISSN: 0966-4068
PB Portland Press Ltd.
DT Journal; General Review
LA English

L4 ANSWER 96 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:706839 CAPLUS
DN 128:12119
TI Electrophysiological analysis of the function of the mammalian renal peptide transporter expressed in Xenopus laevis oocytes
AU Amasheh, Salah; Wenzel, Uwe; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore**
CS Institute of Animal Physiology, University of Giessen, Giessen, D-35392, Germany
SO Journal of Physiology (Cambridge, United Kingdom) (1997), 504(1), 169-174
CODEN: JPHYA7; ISSN: 0022-3751
PB Cambridge University Press
DT Journal
LA English

L4 ANSWER 97 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:514924 CAPLUS
DN 127:218116
TI Cellular and molecular mechanisms of renal peptide transport
AU **Daniel, Hannelore**; Herget, Martina
CS Biochemistry of Nutrition Unit, Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO American Journal of Physiology (1997), 273(1, Pt. 2), F1-F8
CODEN: AJPHAP; ISSN: 0002-9513
PB American Physiological Society
DT Journal; General Review
LA English

L4 ANSWER 98 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:413914 CAPLUS
DN 127:36313
TI Apparatus and procedure for electrodialysis
IN Sawatzki, Guenther; **Daniel, Hannelore**
PA Milupa Ag, Germany
SO Ger., 8 pp.
CODEN: GWXXAW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19536668	C1	19970507	DE 1995-19536668	19950930

PRAI DE 1995-19536668 19950930

L4 ANSWER 99 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:260131 CAPLUS
DN 126:326974
TI Expression and functional characterization of the mammalian intestinal peptide transporter PepT1 in the methylotropic yeast Pichia pastoris
AU Doering, Frank; Theis, Stephan; **Daniel, Hannelore**
CS Inst. Nutritional Sci., Univ. Giessen, Giessen, D-35392, Germany
SO Biochemical and Biophysical Research Communications (1997), 232(3), 656-662
CODEN: BBRCA9; ISSN: 0006-291X
PB Academic
DT Journal
LA English

L4 ANSWER 100 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:253061 CAPLUS
DN 126:262313
TI The peptide-based thrombin inhibitor CRC 220 is a new substrate of the basolateral rat liver organic anion - transporting polypeptide
AU Eckhardt, Uta; Horz, Juergen A.; Petzinger, Ernst; Stueber, Werner; Reers, Martin; Dickneite, Gerhard; **Daniel, Hannelore**; Wagener, Meike; Hagenbuch, Bruno; et al.
CS Institute of Pharmacology and Toxicology, Justus-Liebig-University, Giessen, D-35392, Germany
SO Hepatology (Philadelphia) (1996), 24(2), 380-384
CODEN: HPTLD9; ISSN: 0270-9139
PB Saunders
DT Journal
LA English

L4 ANSWER 101 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:153171 CAPLUS
DN 126:221801
TI First insights into the operational mode of epithelial peptide transporters
AU **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO Journal of Physiology (Cambridge, United Kingdom) (1997), 498(3), 561
CODEN: JPHYA7; ISSN: 0022-3751
PB Cambridge University Press
DT Journal; General Review
LA English

L4 ANSWER 102 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1997:24565 CAPLUS
DN 126:114771
TI Functional analysis of a chimeric mammalian peptide transporter derived from the intestinal and renal isoforms
AU Doering, Frank; Dorn, Daniela; Bachfischer, Ulla; Amasheh, Salah; Herget, Martina; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, University of Giessen, Giessen, D-35392, Germany
SO Journal of Physiology (Cambridge, United Kingdom) (1996), 497(3), 773-779
CODEN: JPHYA7; ISSN: 0022-3751
PB Cambridge University Press
DT Journal

LA English

L4 ANSWER 103 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1996:293240 CAPLUS
DN 125:253
TI Transport characteristics of differently charged cephalosporin antibiotics
in oocytes expressing the cloned intestinal peptide transporter PepT1 and in human intestinal Caco-2 cells
AU Wenzel, Uwe; Gebert, Ingo; Weintraut, Horzt; Weber, Wolf-Michael; Clauss, Wolfgang; **Daniel, Hannelore**
CS Inst. Nutrit. Sci., Univ. Giessen, Giessen, 35392, Germany
SO Journal of Pharmacology and Experimental Therapeutics (1996), 277(2), 831-839
CODEN: JPETAB; ISSN: 0022-3565
PB Williams & Wilkins
DT Journal
LA English

L4 ANSWER 104 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1995:977307 CAPLUS
DN 124:75559
TI Stereoselective uptake of .beta.-lactam antibiotics by the intestinal peptide transporter
AU Wenzel, Uwe; Thwaites, David T.; **Daniel, Hannelore**
CS Inst. of Nutritional Sci., Univ. of Giessen, Giessen, 35392, Germany
SO British Journal of Pharmacology (1995), 116(7), 3021-7
CODEN: BJPCBM; ISSN: 0007-1188
PB Stockton
DT Journal
LA English

L4 ANSWER 105 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1995:760551 CAPLUS
DN 123:165792
TI Selective effect of zinc on uphill transport of oligopeptides into kidney brush border membrane vesicles
AU **Daniel, Hannelore**; Adibi, Siamak A.
CS Institute Nutritional Sciences, University Giessen, Giessen, 35392, Germany
SO FASEB Journal (1995), 9(11), 1112-17
CODEN: FAJOEC; ISSN: 0892-6638
PB Federation of American Societies for Experimental Biology
DT Journal
LA English

L4 ANSWER 106 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1995:352311 CAPLUS
DN 122:181391
TI Target size analysis of the peptide/H+-symporter in kidney brush-border membranes
AU Boll, Michael; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Biochemistry of Nutrition Unit, Justus-Liebig-University Giessen, Wilhelmstrasse 20, Giessen, 35392, Germany
SO Biochimica et Biophysica Acta (1995), 1233(2), 145-52
CODEN: BBACAQ; ISSN: 0006-3002
PB Elsevier
DT Journal
LA English

L4 ANSWER 107 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1995:273664 CAPLUS
DN 122:45629
TI Transport of cefadroxil in rat kidney brush-border membranes is mediated by two electrogenic H+-coupled systems
AU Ries, Michaela; Wenzel, Uwe; **Daniel, Hannelore**
CS Institute of Nutritional Sciences, Justus-Liebig-University, Giessen, 35392, Germany
SO Journal of Pharmacology and Experimental Therapeutics (1994), 271(3), 1327-33
CODEN: JPETAB; ISSN: 0022-3565
PB Williams & Wilkins
DT Journal
LA English

L4 ANSWER 108 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1994:573179 CAPLUS
DN 121:173179
TI Functional separation of dipeptide transport and hydrolysis in kidney brush border membrane vesicles
AU **Daniel, Hannelore**; Adibi, Siamak A.
CS Dep. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA
SO FASEB Journal (1994), 8(10), 753-9
CODEN: FAJOEC; ISSN: 0892-6638
DT Journal
LA English

L4 ANSWER 109 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1994:159599 CAPLUS
DN 120:159599
TI Metabolic fate of dietary carbohydrates
AU Tolle, Gerd; **Daniel, Hannelore**
CS Inst. Ernahrungswiss., Justus-Liebig-Univ., Giessen, Germany
SO Ernaehrungs-Umschau (1993), 40(11), 445-8
CODEN: ERUMAT; ISSN: 0014-021X
DT Journal
LA German

L4 ANSWER 110 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1994:153816 CAPLUS
DN 120:153816
TI .beta.-Casomorphins and gastrointestinal functions
AU **Daniel, Hannelore**; Erll, Gudrun
CS Inst. Ernaehrungswiss., Giessen, W-6300, Germany
SO New Perspect. Infant Nutr., Symp. (1993), Meeting Date 1992, 146-52. Editor(s): Renner, B.; Sawatzki, G. Publisher: Thieme, Stuttgart, Germany.
CODEN: 59RGAR
DT Conference; General Review
LA English

L4 ANSWER 111 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1994:124119 CAPLUS
DN 120:124119
TI Transport of .beta.-lactam antibiotics in kidney brush border membrane. Determinants of their affinity for the oligopeptide/hydrogen ion symporter
AU **Daniel, Hannelore**; Adibi, Siamak A.
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA

SO Journal of Clinical Investigation (1993), 92(5), 2215-23
CODEN: JCINAO; ISSN: 0021-9738
DT Journal
LA English

L4 ANSWER 112 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1993:121423 CAPLUS
DN 118:121423
TI Removal of glycylglutamine from plasma by individual tissues: mechanism and impact on amino acid fluxes in postabsorption and starvation
AU Adibi, Siamak A.; Lochs, Herbert; Abumrad, Naji N.; **Daniel, Hannelore**; Vazquez, Jorge A.
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15261, USA
SO Journal of Nutrition (1993), 123(2, Pt. 2), 325-31
CODEN: JONUAI; ISSN: 0022-3166
DT Journal; General Review
LA English

L4 ANSWER 113 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1992:508763 CAPLUS
DN 117:108763
TI Oligopeptides: mechanism of renal clearance depends on molecular structure
AU Minami, Hisanori; **Daniel, Hannelore**; Morse, Emile L.; Adibi, Siamak A.
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA
SO American Journal of Physiology (1992), 263(1, Pt. 2), F109-F115
CODEN: AJPHAP; ISSN: 0002-9513
DT Journal
LA English

L4 ANSWER 114 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1992:489297 CAPLUS
DN 117:89297
TI Sodium-dependent transport of riboflavin in brush border membrane vesicles
of rat small intestine is an electrogenic process
AU **Daniel, Hannelore**; Rehner, Gertrud I.
CS Inst. Nutr., Justus-Liebig Univ., Giessen, W-6300, Germany
SO Journal of Nutrition (1992), 122(7), 1454-61
CODEN: JONUAI; ISSN: 0022-3166
DT Journal
LA English

L4 ANSWER 115 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1992:485364 CAPLUS
DN 117:85364
TI Determinants of substrate affinity for the oligopeptide/hydrogen ion symporter in the renal brush border membrane
AU **Daniel, Hannelore**; Morse, Emile L.; Adibi, Siamak A.
CS Sch. Med., Univ. Pittsburgh, Pittsburgh, PA, 15213, USA
SO Journal of Biological Chemistry (1992), 267(14), 9565-73
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English

L4 ANSWER 116 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1991:577580 CAPLUS
DN 115:177580
TI The high and low affinity transport systems for dipeptides in kidney brush

border membrane respond differently to alterations in pH gradient and membrane potential
AU **Daniel, Hannelore**; Morse, Emile L.; Adibi, Siamak A.
CS Clin. Nutr. Unit, Montefiore Univ., Pittsburgh, PA, 15213, USA
SO Journal of Biological Chemistry (1991), 266(30), 19917-24
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English

L4 ANSWER 117 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1991:426856 CAPLUS
DN 115:26856
TI Liver diseases. Pathogenesis and nutritional therapy
AU **Daniel, Hannelore**; Hahn, Andreas
CS Inst. Ernaehrungswiss., Giessen, W-6300, Germany
SO Deutsche Apotheker Zeitung (1991), 131(11), 469-78
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 118 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1991:162033 CAPLUS
DN 114:162033
TI Nutrition and the immune system. The effect of essential nutrients on the
immune system
AU **Daniel, Hannelore**; Benterbusch, Reinhild
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1991), 131(3), 61-71
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 119 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1991:98878 CAPLUS
DN 114:98878
TI In vivo kinetics of intestinal absorption of riboflavin in rats
AU Feder, Sabine; **Daniel Hannelore**; Rehner, Gertrud
CS Inst. Nutr., Univ. Giessen, Giessen, D-6300, Germany
SO Journal of Nutrition (1991), 121(1), 72-9
CODEN: JONUAI; ISSN: 0022-3166
DT Journal
LA English

L4 ANSWER 120 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1991:59696 CAPLUS
DN 114:59696
TI Chronic inflammatory diseases of the intestine. Pathogenesis and therapy
AU **Daniel, Hannelore**; Metzger, Barbara
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1990), 130(45), 2461-8
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 121 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:630025 CAPLUS
DN 113:230025
TI .beta.-Casomorphins, opioid peptides derived from milk
AU **Daniel, Hannelore**; Hahn, Andreas

CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, D-6300, Germany
SO Ernaehrungs-Umschau (1990), 37(3), 95-8, 100-1
CODEN: ERUMAT; ISSN: 0014-021X
DT Journal; General Review
LA German

L4 ANSWER 122 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:457835 CAPLUS
DN 113:57835
TI Nutrition and arteriosclerosis. Causes and treatment of hyperlipidemia as
a decisive risk factor for arteriosclerosis
AU **Daniel, Hannelore**; Hecht, Heidrun
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1990), 130(23), 1307-18
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 123 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:234262 CAPLUS
DN 112:234262
TI Effect of casein and .beta.-casomorphins on gastrointestinal motility in rats
AU **Daniel, Hannelore**; Vohwinkel, Margret; Rehner, Gertrud
CS Inst. Nutr., Univ. Giessen, Giessen, D-6300, Germany
SO Journal of Nutrition (1990), 120(3), 252-7
CODEN: JONUAI; ISSN: 0022-3166
DT Journal
LA English

L4 ANSWER 124 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:214508 CAPLUS
DN 112:214508
TI Nutritional and drug therapy of diabetes mellitus. An integrated concept
AU **Daniel, Hannelore**; Metzger, Barbara
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1990), 130(14), 731-40
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 125 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:157065 CAPLUS
DN 112:157065
TI Principles of nutritional physiology. Part 2. Vitamins, nutrients, and trace elements
AU **Daniel, Hannelore**; Wondrak, Lothar
CS Inst. Ernaehrungswiss., Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1990), 130(6), 267-77
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 126 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:157061 CAPLUS
DN 112:157061
TI Principles of nutritional physiology. Part 1. Major nutrients and their importance for human nutrition
AU **Daniel, Hannelore**; Wondrak, Lothar

CS Inst. Ernaehrungswiss, Giessen, D-6300, Germany
SO Deutsche Apotheker Zeitung (1990), 130(3), 121-9
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 127 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1990:97331 CAPLUS
DN 112:97331
TI Nutritional disorders - poor nutrition. Causes and consequences of the nutritional situation in Germany
AU **Daniel, Hannelore**
CS Inst. Ernaehrungswiss., Giessen, D-6300, Fed. Rep. Ger.
SO Deutsche Apotheker Zeitung (1989), 129(49), 2691-6
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal; General Review
LA German

L4 ANSWER 128 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1987:174980 CAPLUS
DN 106:174980
TI Effect of proteins on availability of zinc. II. Bioavailability of zinc from casein and whey protein - retention study in young rats
AU Auge, Mechthild; Kreiling, R.; Harzer, G.; **Daniel, Hannelore**; Rehner, Gertrud
CS Inst. Nutr., Justus Liebig Univ., Giessen, D-6300, Fed. Rep. Ger.
SO Zeitschrift fuer Ernaehrungswissenschaft (1986), 25(4), 233-41
CODEN: ZERNAL; ISSN: 0044-264X
DT Journal
LA English

L4 ANSWER 129 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1987:99789 CAPLUS
DN 106:99789
TI Mechanisms of intestinal nutrient absorption
AU **Daniel, Hannelore**
CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, 6300, Fed. Rep. Ger.
SO Zeitschrift fuer Ernaehrungswissenschaft (1986), 25(4), 209-19
CODEN: ZERNAL; ISSN: 0044-264X
DT Journal; General Review
LA German

L4 ANSWER 130 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1986:604853 CAPLUS
DN 105:204853
TI Effect of pH on the transport of glucose, fructose and alanine in intestinal brush border membrane vesicles
AU **Daniel, Hannelore**; Hartmann, Sabine; Rehner, Gertru
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.
SO INSERM Symposium (1986), 26(Ion Gradient-Coupled Transp.), 141-4
CODEN: INSSDM; ISSN: 0378-0546
DT Journal
LA English

L4 ANSWER 131 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1986:423454 CAPLUS
DN 105:23454
TI Effect of metabolizable sugars on the mucosal surface pH of rat intestine
AU **Daniel, Hannelore**; Rehner, Gertrud

CS Inst. Nutr., Justus-Liebig Univ., Giessen, D-6300, Fed. Rep. Ger.
SO Journal of Nutrition (1986), 116(5), 768-77
CODEN: JONUAI; ISSN: 0022-3166
DT Journal
LA English

L4 ANSWER 132 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1985:146589 CAPLUS
DN 102:146589
TI Localization of acid microclimate along intestinal villi of rat jejunum
AU **Daniel, Hannelore**; Neugebauer, Brigitte; Kratz, Alwin; Rehner, Gertrud
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.
SO American Journal of Physiology (1985), 248(3, Pt. 1), G293-G298
CODEN: AJPHAP; ISSN: 0002-9513
DT Journal
LA English

L4 ANSWER 133 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1983:159456 CAPLUS
DN 98:159456
TI Hydrolysis of FMN and FAD by alkaline phosphatase of the intestinal brush-border membrane
AU **Daniel, Hannelore**; Binninger, Ermelinde; Rehner, Gertrud
CS Inst. Ernaehrungswiss., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.
SO International Journal for Vitamin and Nutrition Research (1983), 53(1), 109-14
CODEN: IJVNAP; ISSN: 0300-9831
DT Journal
LA English

L4 ANSWER 134 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1983:159443 CAPLUS
DN 98:159443
TI In vitro kinetics of the intestinal transport of riboflavin in rats
AU **Daniel, Hannelore**; Wille, Ursula; Rehner, Gertrud
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.
SO Journal of Nutrition (1983), 113(3), 636-43
CODEN: JONUAI; ISSN: 0022-3166
DT Journal
LA English

L4 ANSWER 135 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1981:438610 CAPLUS
DN 95:38610
TI In vitro perfusion technique for investigations on the intestinal transport of water soluble substances
AU Rehner, Gertrud; **Daniel, Hannelore**; Aeppli-Schmidt, Renate
CS Inst. Nutr., Justus-Liebig-Univ., Giessen, D-6300, Fed. Rep. Ger.
SO Journal of Pharmacological Methods (1981), 5(3), 193-201
CODEN: JPMED9; ISSN: 0160-5402
DT Journal
LA English

L4 ANSWER 136 OF 136 CAPLUS COPYRIGHT 2003 ACS
AN 1974:446695 CAPLUS
DN 81:46695
TI Electron microscopical demonstration of acetylcholinesterase in neutrons and synapses of the central and peripheral nervous system

AU Ritter, Joachim; Wenzel, Juergen; **Daniel, Hannelore**
CS Anat. Inst., Humboldt-Univ., Berlin, Ger. Dem. Rep.
SO Acta Histochemica (1974), 49(2), 176-203
CODEN: AHISA9; ISSN: 0065-1281
DT Journal
LA German

=> s genistin and cyclooxygenase?
L5 4 GENISTIN AND CYCLOOXYGENASE?

=> d l5 abs ibib 1-4

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB This invention relates to the use of flavone or derivs. thereof for the treatment of diseases mediated by **cyclooxygenase**-2 or NF.kappa.B. The flavones can be administered in oral dosage forms or foods.

ACCESSION NUMBER: 2001:626002 CAPLUS
DOCUMENT NUMBER: 135:185492
TITLE: Flavones for the treatment of COX-2 and/or NF.kappa.B-mediated diseases
INVENTOR(S): Wenzel, Uwe; Daniel, Hannelore
PATENT ASSIGNEE(S): Basf A. -G., Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001233768	A2	20010828	JP 2001-49370	20010223
EP 1127572	A2	20010829	EP 2001-103200	20010212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2001046963	A1	20011129	US 2001-782306	20010214
CN 1318371	A	20011024	CN 2001-116513	20010225

PRIORITY APPLN. INFO.: US 2000-185179P P 20000225
OTHER SOURCE(S): MARPAT 135:185492

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2003 ACS
AB Claimed is a method for inhibiting **cyclooxygenase** or prostaglandin H synthase and for inhibiting inflammation with at least one compd. anthocyanin selected from the group consisting of cyanidin-3-glucosylrutinoside, cyanidin-3-rutinoside and cyanidin-3-glucoside isolated from the fruit of a cherry. In particular a mixt. including the anthocyanins, bioflavonoids and phenolics is described for this use.

ACCESSION NUMBER: 2001:146488 CAPLUS
DOCUMENT NUMBER: 134:183458
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids
INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.
PATENT ASSIGNEE(S): Board of Trustees Operating Michigan State University,

USA
SOURCE: U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6194469	B1	20010227	US 1999-337313	19990621
US 6423365	B1	20020723	US 1999-317310	19990524
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531493	T2	20020924	JP 2000-586317	19991210
US 2001020009	A1	20010906	US 2000-749856	20001228

PRIORITY APPLN. INFO.:
US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an IC50 value of 80 .mu.M. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 .mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:407652 CAPLUS
DOCUMENT NUMBER: 133:261100
TITLE: **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships
AUTHOR(S): Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CORPORATE SOURCE: Bioactive Natural Products Laboratory, Department of

Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA

SOURCE: Phytomedicine (2000), 7(1), 15-19
CODEN: PYTOEY; ISSN: 0944-7113

PUBLISHER: Urban & Fischer Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2003 ACS

AB A method for inhibiting **cyclooxygenase** (COX) enzymes and inflammation in a mammal using a cherry or cherry anthocyanins, bioflavonoids, and phenolics is described. Among the flavonoids tested, kaempferol showed the highest COX-1 inhibitory activity with an IC50 value of 180.mu.M, followed by luteolin, quercetin, naringenin and quercetin 3-rhamnoside. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids tested with an IC50 value of 80.mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5, and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, hydroxyl group at C3' position decreased the COX-1/COX-2 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:401636 CAPLUS
DOCUMENT NUMBER: 133:26836
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids
INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.
PATENT ASSIGNEE(S): Michigan State University, USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6423365	B1	20020723	US 1999-317310	19990524
US 6194469	B1	20010227	US 1999-337313	19990621
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

JP 2002531493 T2 20020924 JP 2000-586317 19991210
PRIORITY APPLN. INFO.: US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210

=> s bioflavonoid and cyclooxygenase?
L6 54 BIOFLAVONOID AND CYCLOOXYGENASE?

=> d l6 abs ibib 1-54

L6 ANSWER 1 OF 54 MEDLINE
AB Fom the stem wood of Dracaena loureiri, a new homoisoflavanone named loureiriol (1) and eight known flavonoid and stilbenoid derivatives, including 5,7-dihydroxy-3-(4-hydroxybenzyl)-4-chromanone (2), 4,4'-dihydroxy-2,6-dimethoxydihydrochalcone (3), 2,4'-dihydroxy-4,6-dimethoxydihydrochalcone (4), 4'-hydroxy-2,4,6-trimethoxydihydrochalcone (5), 4,6,4'-trihydroxy-2-methoxydihydrochalcone (6), 4,3',5'-trihydroxystilbene (7), 4,3'-dihydroxy-5'-methoxystilbene (8) and 4-hydroxy-3',5'-dimethoxystilbene (9) were isolated. These compounds were evaluated for their inhibitory activity against the enzymes **cyclooxygenase**-1 and **cyclooxygenase**-2. Potent but non-selective activity was found for the stilbenoids 7-9 (IC(50) 1.29 - 4.92 microM) whereas weak or no activity was observed for the flavonoids 1-6.
ACCESSION NUMBER: 2002645407 MEDLINE
DOCUMENT NUMBER: 22244680 PubMed ID: 12357401
TITLE: Flavonoids and stilbenoids with COX-1 and COX-2 inhibitory activity from Dracaena loureiri.
AUTHOR: Likhitwitayawuid Kittisak; Sawasdee Kanokporn; Kirtikara Kanyawim
CORPORATE SOURCE: Department of Pharmacognosy, Faculty of Pharmaceutical Sciences Chulalongkorn University, Bangkok, Thailand.
SOURCE: PLANTA MEDICA, (2002 Sep) 68 (9) 841-3.
Journal code: 0066751. ISSN: 0032-0943.
PUB. COUNTRY: Germany: Germany, Federal Republic of
DOCUMENT TYPE: Letter
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200212
ENTRY DATE: Entered STN: 20021031
Last Updated on STN: 20021227
Entered Medline: 20021226

L6 ANSWER 2 OF 54 MEDLINE
AB Ginkgetin, a biflavone from Ginkgo biloba leaves, was previously reported to be a phospholipase A2 inhibitor and this compound showed the potent antiarthritic activity in rat adjuvant-induced arthritis as well as analgesic activity. This investigation was carried out to find effects on **cyclooxygenase** (COX)-1 and -2 including an in vivo effect.
Ginkgetin (1 - 10 microM) and the biflavonoid mixture (10 - 50 microg/ml), mainly a 1 : 1 mixture of ginkgetin and isoginkgetin, from G. biloba leaves, inhibited production of prostaglandin E2 from lipopolysaccharide-induced RAW 264.7 cells. This inhibition was mediated, at least in part, by down-regulation of COX-2 expression, but not by direct inhibition of COX-1 or COX-2 activity. Down-regulation of COX-2 by ginkgetin was also proved in the dorsal skin of ICR mouse treated by 12-O-

tetradecanoylphorbol 13-acetate (TPA). At total doses of 1,000 microg/site on the dorsal skin (15 mm x 15 mm), ginkgetin inhibited prostaglandin E2 production by 65.6 % along with a marked suppression of COX-2 induction. In addition, ginkgetin and the biflavonoid mixture (100 - 1,000 microg/ear) dose-dependently inhibited skin inflammation of croton oil induced ear edema in mice by topical application. The present study suggests that ginkgetin from G. biloba leaves down-regulates COX-2 induction in vivo and this down-regulating potential is associated with an anti-inflammatory activity against skin inflammatory responses.

ACCESSION NUMBER: 2002299751 MEDLINE
DOCUMENT NUMBER: 21984591 PubMed ID: 11988854
TITLE: Effects of Ginkgetin from Ginkgo biloba Leaves on **cyclooxygenases** and in vivo skin inflammation.
AUTHOR: Kwak Wie-Jong; Han Chang Kyun; Son Kun Ho; Chang Hyeun Wook; Kang Sam Sik; Park Byoung Kyu; Kim Hyun Pyo
CORPORATE SOURCE: SK Chemicals Ltd., Suwon, Korea.
SOURCE: PLANTA MEDICA, (2002 Apr) 68 (4) 316-21.
Journal code: 0066751. ISSN: 0032-0943.
PUB. COUNTRY: Germany: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200207
ENTRY DATE: Entered STN: 20020604
Last Updated on STN: 20021219
Entered Medline: 20020715

L6 ANSWER 3 OF 54 MEDLINE
AB Prenylated flavonoids are chemical entities having an isoprenyl, a geranyl, a 1,1-dimethylallyl, and/or a lavandulyl moiety as part of their flavonoid backbone structure. In this study, the effects of 19 naturally occurring prenylated flavonoids, isolated from medicinal plants, on **cyclooxygenase** (COX)-1 and COX-2 and on 5-lipoxygenase (5-LOX) and 12-LOX were investigated using [14C]arachidonic acid as a substrate. The homogenates of bovine platelets and polymorphonuclear leukocytes were used as COX-1, 12-LOX, and 5-LOX enzyme sources; the homogenate of aspirin-pretreated lipopolysaccharide-induced RAW 264.7 cells was used for the COX-2 enzyme source. Among the 19 prenylated flavonoids, morusin, kuwanon C, sanggenon B, sanggenon D and kazinol B inhibited COX-2 activity (ic(50) = 73-100 microM), but the potencies were far less than that of NS-398 (ic(50) = 2.9 microM). In contrast, many prenylated flavonoids, such as kuraridin, kuwanon C and sophoraisoflavanone A, inhibited COX-1 activity. Of the COX-1 inhibiting prenylated flavonoids, kuraridin, kurarinone, and sophoraflavanone G, all having a C-8 lavandulyl moiety, showed potent activity (ic(50) = 0.1 to 1 microM) comparable to that of indomethacin (ic(50) = 0.7 microM). Most of the prenylated flavonoids tested inhibited 5-LOX activity with ic(50) values ranging from 0.09 to 100 microM. Of these, only kuwanon C, papyriflavonol A and sophoraflavanone G showed inhibitory activity against 12-LOX at low concentration ranges (ic(50) = 19-69 microM) comparable to that of NDGA (ic(50) = 2.6 microM). Our results suggest that the position and the nature of the prenyl substitution greatly influence in vitro biological activities of these molecules.

ACCESSION NUMBER: 2001654406 MEDLINE
DOCUMENT NUMBER: 21562331 PubMed ID: 11705451

TITLE: Effects of naturally occurring prenylated flavonoids on enzymes metabolizing arachidonic acid: **cyclooxygenases** and lipoxygenases.
AUTHOR: Chi Y S; Jong H G; Son K H; Chang H W; Kang S S; Kim H P
CORPORATE SOURCE: College of Pharmacy, Kangwon National University, 200-701, Korea, Chunchon, South Korea.
SOURCE: BIOCHEMICAL PHARMÁCOLOGY, (2001 Nov 1) 62 (9) 1185-91. Journal code: 0101032. ISSN: 0006-2952.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200112
ENTRY DATE: Entered STN: 20011115
Last Updated on STN: 20020123
Entered Medline: 20011204

L6 ANSWER 4 OF 54 MEDLINE

AB Several natural flavonoids have been demonstrated to perform some beneficial biological activities, however, higher-effective concentrations and poor-absorptive efficacy in body of flavonoids blocked their practical applications. In the present study, we provided evidences to demonstrate that flavonoids rutin, quercetin, and its acetylated product quercetin pentaacetate were able to be used with nitric oxide synthase (NOS) inhibitors (N-nitro-L-arginine (NLA) or N-nitro-L-arginine methyl ester (L-NAME)) in treatment of lipopolysaccharide (LPS) induced nitric oxide (NO) and prostaglandin E2 (PGE2) productions, inducible nitric oxide synthase (iNOS) and **cyclooxygenase**-2 (COX-2) gene expressions in a mouse macrophage cell line (RAW 264.7). The results showed that rutin, quercetin, and quercetin pentaacetate-inhibited LPS-induced NO production in a concentration-dependent manner without obvious cytotoxic effect on cells by MTT assay using 3-[4,5-dimethylthiazol-2-yl]-2,5-diphenyltetrazolium bromide as an indicator. Decrease of NO production by flavonoids was consistent with the inhibition on LPS-induced iNOS gene expression by western blotting. However, these compounds were unable to block iNOS enzyme activity by direct and indirect measurement on iNOS enzyme activity. Quercetin pentaacetate showed the obvious inhibition on LPS-induced PGE2 production and COX-2 gene expression and the inhibition was not result of suppression on COX-2 enzyme activity. Previous study demonstrated that decrease of NO production by L-arginine analogs effectively stimulated LPS-induced iNOS gene expression, and proposed that stimulatory effects on iNOS protein by NOS inhibitors might be harmful in treating sepsis. In this study, NLA or L-NAME treatment stimulated significantly on LPS-induced iNOS (but not COX-2) protein in RAW 264.7 cells which was inhibited by these three compounds. Quercetin pentaacetate, but not quercetin and rutin, showed the strong inhibitory activity on PGE2 production and COX-2 protein expression in NLA/LPS or L-NAME/LPS co-treated RAW 264.7 cells. These results indicated that combinatorial treatment of L-arginine analogs and flavonoid derivates, such as quercetin pentaacetate, effectively inhibited LPS-induced NO and PGE2 productions, at the same time, inhibited enhanced expressions of iNOS and COX-2 genes.

ACCESSION NUMBER: 2001455188 MEDLINE
DOCUMENT NUMBER: 21392035 PubMed ID: 11500931
TITLE: Inhibition of nitric oxide synthase inhibitors and

lipopolysaccharide induced inducible NOS and **cyclooxygenase**-2 gene expressions by rutin, quercetin, and quercetin pentaacetate in RAW 264.7 macrophages.
AUTHOR: Chen Y C; Shen S C; Lee W R; Hou W C; Yang L L; Lee T J
CORPORATE SOURCE: Graduate Institute of Pharmacognosy Science, Taipei Medical
University, Taipei, Taiwan.. yc3270@tmu.edu.tw
SOURCE: JOURNAL OF CELLULAR BIOCHEMISTRY, (2001) 82 (4) 537-48.
Journal code: 8205768. ISSN: 0730-2312.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200110
ENTRY DATE: Entered STN: 20010814
Last Updated on STN: 20011015
Entered Medline: 20011011

L6 ANSWER 5 OF 54 MEDLINE
AB Diets rich in fruits and vegetables delay the onset of many age-related diseases, and contain a complex mixture of antioxidants (including ascorbate, carotenoids, vitamin E and other phenolics such as the flavonoids). However, diet also contains pro-oxidants, including iron, copper, H2O2, haem, lipid peroxides and aldehydes. Nitrite is frequently present in diet, leading to generation of reactive nitrogen species in the stomach. In considering the biological importance of dietary antioxidants, attention has usually focussed on those that are absorbed through the gastrointestinal tract into the rest of the body. In the present paper we develop the argument that the high levels of antioxidants present in certain foods (fruits, vegetables, grains) and beverages (e.g. green tea) play an important role in protecting the gastrointestinal tract itself from oxidative damage, and in delaying the development of stomach, colon and rectal cancer. Indeed, carotenoids and flavonoids do not seem to be as well absorbed as vitamins C and E. Hence their concentrations can be much higher in the lumen of the GI tract than are ever achieved in plasma or other body tissues, making an antioxidant action in the GI tract more likely. Additional protective mechanisms of these dietary constituents (e.g. effects on intercellular communication, apoptosis, **cyclooxygenases** and telomerase) may also be important.
ACCESSION NUMBER: 2001301702 MEDLINE
DOCUMENT NUMBER: 21131838 PubMed ID: 11237104
TITLE: The gastrointestinal tract: a major site of antioxidant action?.
AUTHOR: Halliwell B; Zhao K; Whiteman M
CORPORATE SOURCE: Dept. of Biochemistry, National University of Singapore, Singapore.
SOURCE: FREE RADICAL RESEARCH, (2000 Dec) 33 (6) 819-30. Ref: 112
Journal code: 9423872. ISSN: 1071-5762.
PUB. COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200105
ENTRY DATE: Entered STN: 20010604

Last Updated on STN: 20010604
Entered Medline: 20010531

L6 ANSWER 6 OF 54 MEDLINE

AB We previously reported that oroxylin A, a polyphenolic compound, was a potent inhibitor of lipopolysaccharide (LPS)-induced expression of inducible nitric oxide synthase (iNOS) and **cyclooxygenase**-2 (COX-2). In the present study, three oroxylin A structurally related polyphenols isolated from the Chinese herb Huang Qui, namely baicalin, baicalein, and wogonin, were examined for their effects on LPS-induced nitric oxide (NO) production and iNOS and COX-2 gene expressions in RAW 264.7 macrophages. The results indicated that these three polyphenolic compounds inhibited LPS-induced NO production in a concentration-dependent manner without a notable cytotoxic effect on these cells. The decrease in NO production was in parallel with the inhibition by these polyphenolic compounds of LPS-induced iNOS gene expression. However, these three compounds did not directly affect iNOS enzyme activity. In addition, wogonin, but not baicalin or baicalein, inhibited LPS-induced prostaglandin E2 (PGE2) production and COX-2 gene expression without affecting COX-2 enzyme activity. Furthermore, N-nitro-L-arginine (NLA) and N-nitro-L-arginine methyl ester (L-NAME) pretreatment enhanced LPS-induced iNOS (but not COX-2) protein expression, which was inhibited by these three polyphenolic compounds. Wogonin, but not baicalin or baicalein, similarly inhibited PGE2 production and COX-2 protein expression in NLA/LPS or L-NAME/LPS-co-treated RAW 264.7 cells. These results indicated that co-treatment with NOS inhibitors and polyphenolic compounds such as wogonin effectively blocks acute production of NO and, at the same time, inhibits expression of iNOS and COX-2 genes.

ACCESSION NUMBER: 2001249620 MEDLINE
DOCUMENT NUMBER: 21229513 PubMed ID: 11331078
TITLE: Wogonin, baicalin, and baicalein inhibition of inducible nitric oxide synthase and **cyclooxygenase**-2 gene expressions induced by nitric oxide synthase inhibitors and lipopolysaccharide.
AUTHOR: Chen Y C; Shen S C; Chen L G; Lee T J; Yang L L
CORPORATE SOURCE: Graduate Institute of Pharmacognosy Science, Taipei Medical University, 250 Wu-Hsing Street, Taipei, Taiwan.
CONTRACT NUMBER: HL 27763 (NHLBI)
SOURCE: BIOCHEMICAL PHARMACOLOGY, (2001 Jun 1) 61 (11) 1417-27. Journal code: 0101032. ISSN: 0006-2952.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200105
ENTRY DATE: Entered STN: 20010517
Last Updated on STN: 20010517
Entered Medline: 20010510

L6 ANSWER 7 OF 54 MEDLINE

AB Chronic venous insufficiency (CVI) is accompanied by a marked inflammatory response that is thought to contribute to the development and progression of the disorder. While compression therapy has long been considered the standard treatment for CVI, recent studies suggest that treatment with

flavonoids may also be beneficial. The purpose of this review is to summarize how plant flavonoids attenuate inflammation and the immune response through their inhibition of important regulatory enzymes. Certain flavonoids are potent inhibitors of the production of prostaglandins, a group of powerful proinflammatory signaling molecules. Studies have shown that this effect is due to flavonoid inhibition of key enzymes involved in prostaglandin biosynthesis (i.e., lipoxygenase, phospholipase, and **cyclooxygenase**). Flavonoids also inhibit phosphodiesterases involved in cell activation. Much of this effect is upon the biosynthesis of protein cytokines that mediate adhesion of circulating leukocytes to sites of injury. The protein kinases are another class of regulatory enzymes affected by flavonoids. The inhibition of kinases is due to the competitive binding of flavonoids with ATP at catalytic sites on the enzymes. These modes of inhibition provide the mechanisms by which flavonoids inhibit the inflammation response and suggest that this class of molecules may be effective in the treatment of CVI.

ACCESSION NUMBER: 2001153004 MEDLINE
DOCUMENT NUMBER: 21025288 PubMed ID: 11151968
TITLE: Biological properties of flavonoids pertaining to inflammation.
AUTHOR: Manthey J A
CORPORATE SOURCE: 33881.. jmanthey@citrus.usda.gov
SOURCE: MICROCIRCULATION, (2000) 7 (6 Pt 2) S29-34. Ref: 52
Journal code: 9434935. ISSN: 1073-9688.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200103
ENTRY DATE: Entered STN: 20010404
Last Updated on STN: 20010404
Entered Medline: 20010322

L6 ANSWER 8 OF 54 MEDLINE

AB Certain flavonoid derivatives possess anti-inflammatory activity in vitro and in vivo. Besides their antioxidative properties and effects on the arachidonic acid metabolism including **cyclooxygenase**/lipoxygenase inhibition, some flavones and flavonols were previously found to show inhibitory activity on nitric oxide production by inducible nitric oxide synthase (iNOS; NOS type 2) through suppression of iNOS induction. As part of our continuing investigations, the effects of unique and minor flavonoids (prenylated flavonoids and biflavonoids) on nitric oxide production from lipopolysaccharide-induced macrophage cell line (RAW 264.7) were evaluated in order to establish their inhibitory activity on NO production and correlate this action with their in vivo anti-inflammatory potential. Among the derivatives tested, prenylated compounds including morusin, kuwanon C, and sanggenon D and biflavonoids such as bilobetin and ginkgetin were found to inhibit NO production from lipopolysaccharide (LPS)-induced RAW 264.7 cells at > 10 microM. Inhibition of nitric oxide production was mediated by suppression of iNOS enzyme induction but not by direct inhibition of iNOS enzyme activity. An exception was echinoisoflavanone that inhibited iNOS enzyme activity (IC50 = 83 microM) and suppressed iNOS enzyme induction as well. While most

prenylated derivatives showed cytotoxicity to RAW cells at 10-100 microM, all biflavonoids tested were not cytotoxic. Since nitric oxide (NO) produced by inducible NO synthase (iNOS) plays an important role in inflammatory disorders, inhibition of NO production by these flavonoids may contribute, at least in part, to their anti-inflammatory and immunoregulating potential in vivo.

ACCESSION NUMBER: 2001090884 MEDLINE
DOCUMENT NUMBER: 20557189 PubMed ID: 11105561
TITLE: Effects of prenylated flavonoids and biflavonoids on lipopolysaccharide-induced nitric oxide production from the mouse macrophage cell line RAW 264.7.
AUTHOR: Cheon B S; Kim Y H; Son K S; Chang H W; Kang S S; Kim H P
CORPORATE SOURCE: College of Pharmacy, Kangwon National University, Chunchon, Korea.
SOURCE: PLANTA MEDICA, (2000 Oct) 66 (7) 596-600. Journal code: 0066751. ISSN: 0032-0943.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200101
ENTRY DATE: Entered STN: 20010322
Last Updated on STN: 20010322
Entered Medline: 20010125

L6 ANSWER 9 OF 54 MEDLINE

AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an IC50 value of 80 microM. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 microM. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000244342 MEDLINE
DOCUMENT NUMBER: 20244342 PubMed ID: 10782485
TITLE: **Cyclooxygenase** active **bioflavonoids** from Balaton tart cherry and their structure activity relationships.
AUTHOR: Wang H; Nair M G; Strasburg G M; Booren A M; Gray I; Dewitt D L
CORPORATE SOURCE: Department of Horticulture, Michigan State University, USA.
CONTRACT NUMBER: 1-S10-RR04750 (NCRR)
SOURCE: PHYTOMEDICINE, (2000 Mar) 7 (1) 15-9. Journal code: 9438794. ISSN: 0944-7113.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200007
ENTRY DATE: Entered STN: 20000810

Last Updated on STN: 20000810
Entered Medline: 20000727

L6 ANSWER 10 OF 54 MEDLINE

AB Polyphenols are major components of many traditional herbal remedies, which exhibit several beneficial effects including anti-inflammation. The exact mechanism of the anti-inflammatory action of polyphenols, however, has not been determined. In the present study, we examined the effects of eight different polyphenols isolated from Chinese herbs, including two flavonoids (myricitrin and oroxylin A), four ellagitannins (penta-O-galloyl-beta-glucopyranose, woodfordin C, oenothein B, and cuphiin D1), and two anthraquinones (emodin and physcion), on lipopolysaccharide (LPS)-induced nitric oxide (NO) production, and inducible nitric oxide synthase (iNOS) and **cyclooxygenase**-2 (COX-2) gene expression in RAW264.7 macrophages. The results indicated that only oroxylin A and emodin concentration-dependently inhibited LPS-induced NO production. The remaining compounds slightly inhibited LPS-induced NO production only at the highest concentration examined. Furthermore, oroxylin A inhibited the expression of LPS-induced iNOS and COX-2 proteins and mRNAs without an appreciable cytotoxic effect on RAW264.7 cells. Emodin also inhibited LPS-induced iNOS protein as potently as oroxylin A, but it inhibited LPS-induced iNOS mRNA expression only slightly and did not affect COX-2 mRNA and proteins. This was consistent with the findings that oroxylin A but not emodin or physcion inhibited prostaglandin E(2) synthesis induced by LPS. The inhibitory effects of oroxylin A on LPS-induced iNOS and COX-2 gene expression were also demonstrated in Bcl-2-overexpressing RAW264.7 macrophages, suggesting that oroxylin A inhibition of iNOS and COX-2 expression was not due to its antioxidant effect. Furthermore, oroxylin A but not emodin blocked nuclear factor-kappaB (NF-kappaB) binding and transcriptional activation associated with decreased p65 proteins in the nucleus induced by LPS. These results indicated that oroxylin A, an active component in Huang Qin, inhibited LPS-induced iNOS and COX-2 gene expression by blocking NF-kappaB activation, whereas emodin inhibition of LPS-induced iNOS expression may be mediated by a different transcription factor.

ACCESSION NUMBER: 2000216670 MEDLINE
DOCUMENT NUMBER: 20216670 PubMed ID: 10751555
TITLE: Oroxylin A inhibition of lipopolysaccharide-induced iNOS and COX-2 gene expression via suppression of nuclear factor-kappaB activation.
AUTHOR: Chen Y; Yang L; Lee T J
CORPORATE SOURCE: Department of Pharmacology, Southern Illinois University, School of Medicine, Springfield, IL 62704-9629, USA.
CONTRACT NUMBER: HL 27763 (NHLBI)
HL47574 (NHLBI)
SOURCE: BIOCHEMICAL PHARMACOLOGY, (2000 Jun 1) 59 (11) 1445-57.
Journal code: 0101032. ISSN: 0006-2952.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200005
ENTRY DATE: Entered STN: 20000512
Last Updated on STN: 20000512
Entered Medline: 20000504

L6 ANSWER 11 OF 54 MEDLINE

AB Prostaglandins biosynthesis and nitric oxide production have been implicated in the process of carcinogenesis and inflammation. In this study, we investigated the effect of various flavonoids and (-)-epigallocatechin-3-gallate on the activities of inducible **cyclooxygenase** (COX-2) and inducible nitric oxide synthase (iNOS) in lipopolysaccharide (LPS)-activated RAW 264.7 macrophages. Apigenin, genistein and kaempferol were markedly active inhibitors of transcriptional activation of COX-2, with IC(50) < 15 microM. In addition, apigenin and kaempferol were also markedly active inhibitors of transcriptional activation of iNOS, with IC(50) < 15 microM. Of those compounds tested, apigenin was the most potent inhibitor of transcriptional activation of both COX-2 and iNOS. Western and northern blot analyses demonstrated that apigenin significantly blocked protein and mRNA expression of COX-2 and iNOS in LPS-activated macrophages. Transient transfection experiments showed that LPS caused an approximately 4-fold increase in both COX-2 and iNOS promoter activities, these increments were suppressed by apigenin. Moreover, electrophoretic mobility shift assay (EMSA) experiments indicated that apigenin blocked the LPS-induced activation of nuclear factor-kB (NF-kB). The inhibition of NF-kB activation occurs through the prevention of inhibitor kB (IkB) degradation. Transient transfection experiments also showed that apigenin inhibited NF-kB-dependent transcriptional activity. Finally, we showed that apigenin could inhibit the IkB kinase activity induced by LPS or interferon-gamma. The results of further studies suggest that suppression of transcriptional activation of COX-2 and iNOS by apigenin might mainly be mediated through inhibition of IkB kinase activity. This study suggests that modulation of COX-2 and iNOS by apigenin and related flavonoids may be important in the prevention of carcinogenesis and inflammation.

ACCESSION NUMBER: 1999435951 MEDLINE
DOCUMENT NUMBER: 99435951 PubMed ID: 10506109
TITLE: Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages.
AUTHOR: Liang Y C; Huang Y T; Tsai S H; Lin-Shiau S Y; Chen C F; Lin J K
CORPORATE SOURCE: Institute of Biochemistry, College of Medicine, National Taiwan University, No. 1, Section 1, Taipei, Taiwan.
SOURCE: CARCINOGENESIS, (1999 Oct) 20 (10) 1945-52.
Journal code: 8008055. ISSN: 0143-3334.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199911
ENTRY DATE: Entered STN: 20000111
Last Updated on STN: 20000111
Entered Medline: 19991104

L6 ANSWER 12 OF 54 MEDLINE

AB The antioxidant and eicosanoid enzyme inhibition properties of pomegranate (Punica granatum) fermented juice and seed oil flavonoids were studied. The pomegranate fermented juice (pfj) and cold pressed seed oil (pcpso) showed strong antioxidant activity close to that of butylated

hydroxyanisole (BHA) and green tea (Thea sinensis), and significantly greater than that of red wine (Vitis vitifera). Flavonoids extracted from pcpso showed 31-44% inhibition of sheep **cyclooxygenase** and 69-81% inhibition of soybean lipoxygenase. Flavonoids extracted from pfj showed 21-30% inhibition of soybean lipoxygenase though no significant inhibition of sheep **cyclooxygenase**. The pcpso was analyzed for its polyphenol content and fatty acid composition. Total polyphenols in pcpso showed a concentration by weight of approximately 0.015%. Pcpso fatty acid composition showed punicic acid (65.3%) along with palmitic acid (4.8%), stearic acid (2.3%), oleic acid (6.3%), linoleic acid (6.6%) and three unidentified peaks from which two (14.2%) are probably isomers of punicic acid (El-Shaarawy, M.I., Nahpetian, A., 1983). Studies on pomegranate seed oil. Fette Seifen Anstrichmittel 83(3), 123-126).

ACCESSION NUMBER: 1999359160 MEDLINE
DOCUMENT NUMBER: 99359160 PubMed ID: 10432202
TITLE: Antioxidant and eicosanoid enzyme inhibition properties of pomegranate seed oil and fermented juice flavonoids.
AUTHOR: Schubert S Y; Lansky E P; Neeman I
CORPORATE SOURCE: Laboratories of Food Engineering and Biotechnology, Technion-Israel Institute of Technology, Haifa.
SOURCE: JOURNAL OF ETHNOPHARMACOLOGY, (1999 Jul) 66 (1) 11-7. Journal code: 7903310. ISSN: 0378-8741.
PUB. COUNTRY: Ireland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199910
ENTRY DATE: Entered STN: 19991101
Last Updated on STN: 19991101
Entered Medline: 19991020

L6 ANSWER 13 OF 54 MEDLINE

AB Biflavonoid is one of unique classes of naturally-occurring **bioflavonoids**. Certain biflavonoids including amentoflavone were previously reported to have inhibitory effect on the group II phospholipase A2 activity. Amentoflavone was also found to inhibit **cyclooxygenase** from guinea-pig epidermis without affecting lipoxygenase. In this study, anti-inflammatory and analgesic activities of amentoflavone were evaluated. When amentoflavone was administered intraperitoneally, it showed a potent anti-inflammatory activity as determined by amelioration of croton-oil induced mouse ear edema. It also showed a potent anti-inflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone (35 mg/kg) and indomethacin (10 mg/kg). However, amentoflavone did not show a significant inhibitory activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addition, amentoflavone was found to possess a potent analgesic activity in the acetic acid writhing test (ED50 = 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that amentoflavone may be a potential lead for a new type of anti-inflammatory agents having dual inhibitory activity of group II phospholipase A2 and **cyclooxygenase**.

ACCESSION NUMBER: 1999092626 MEDLINE
DOCUMENT NUMBER: 99092626 PubMed ID: 9875467
TITLE: Amentoflavone, a plant biflavone: a new potential anti-inflammatory agent.
AUTHOR: Kim H K; Son K H; Chang H W; Kang S S; Kim H P
CORPORATE SOURCE: College of Pharmacy, Kangwon National Univ., Chunchon,

Korea.
SOURCE: ARCHIVES OF PHARMACAL RESEARCH, (1998 Aug) 21 (4) 406-10.

Journal code: 8000036. ISSN: 0253-6269.
PUB. COUNTRY: KOREA
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199902
ENTRY DATE: Entered STN: 19990311
Last Updated on STN: 19990311
Entered Medline: 19990225

L6 ANSWER 14 OF 54 MEDLINE
AB OBJECTIVE AND DESIGN: The anti-inflammatory effect of myricetinglucuronide (MGL) was investigated and structurally-related compounds were compared to examine the structure/activity-relationship in carrageenan-induced rat paw edema. MATERIALS AND SUBJECTS: In vitro studies were performed using rat basophilic leukemia (RBL-1) cells, human polymorphonuclear leukocytes (PMNL), COX-1 from ram seminal vesicle, COX-2 from sheep placenta and human venous blood. For the in vivo tests male Wistar rats were used, for the ex vivo test perfused rabbit ears. TREATMENT: 1-300 microg/kg MGL or myricetinmethylglucuronate and 0.1-5 mg/kg other related compounds administered p.o. (carrageenan edema). 5, 50 and 150 microg/kg MGL p.o. for 14 days (Freund's adjuvant arthritis), 5 and 50 microg/kg p.o. for 6 days (ulceration). METHODS: Anti-inflammatory effects were measured in carrageenan edema and in adjuvant arthritis. Incidence of gastric lesions was tested in an ulcerogenicity model in vivo. Influence on COX was determined in the perfused rabbit ear, in PMNL and in a test assay using COX-1 and COX-2. 5-LOX activity was studied using PMNL and RBL-1. The influence on platelet aggregation was evaluated measuring light transmission. RESULTS: MGL exerted a marked and dose-dependent anti-inflammatory effect in acute (carrageenan edema, ED50 15 microg/kg, indomethacin ED50 10 mg/kg) and chronic (adjuvant arthritis, inhibition at 150 microg/kg 18.1 % left paw, 20.6% right paw, indomethacin 3 mg/kg 18.0% and 19.4%)) models of inflammation. In the perfused rabbit ear 1 microg MGL inhibited the release of PGI2, PGD2 and PGE2 to the same extent as 1 microg indomethacin. The inhibition of COX-1 in the intact cell system was IC50 = 0.5 microM, that of indomethacin 0.0038 microM. In the isolated enzyme preparations of COX-1 and COX-2 the IC50 was 10 microM and 8 microM, that of indomethacin 9.2 mM and 2.4 microM. In the RBL-1 and PMNL test assay the inhibition of 5-LOX was 0.1 microM and 2.2 microM. An orally administered dose of 50 microg/kg/day induced no gastric ulcers in rats treated for 6 days. The investigations on carrageenan edema showed a close relationship between the structure of MGL and the anti-inflammatory effect. CONCLUSIONS: MGL is a COX-1, COX-2 and 5-LOX inhibitor. In view of the moderate in vitro activity and the very potent in vivo activity an additive mechanism must be involved. Small changes in the molecular structure lead to the loss or reduction of the anti-inflammatory activity.
ACCESSION NUMBER: 1999081098 MEDLINE
DOCUMENT NUMBER: 99081098 PubMed ID: 9865500
TITLE: Anti-inflammatory activity of myricetin-3-O-beta-D-

glucuronide and related compounds.
AUTHOR: Hiermann A; Schramm H W; Laufer S
CORPORATE SOURCE: Institute of Pharmacognosy, University of Graz, Austria.. alois.hiermann@kfunigraz.ac.at
SOURCE: INFLAMMATION RESEARCH, (1998 Nov) 47 (11) 421-7.
Journal code: 9508160. ISSN: 1023-3830.
PUB. COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199903
ENTRY DATE: Entered STN: 19990316
Last Updated on STN: 19990316
Entered Medline: 19990301

L6 ANSWER 15 OF 54 MEDLINE
AB This study was conducted to obtain effective cancer chemopreventive agents with low toxicity from medicinal herbs. The effect of aqueous extracts from 9 medicinal herbs with antiinflammatory effect were examined on the formation of azoxymethane (AOM)-induced aberrant crypt foci (ACF), putative preneoplastic lesions of the colon. Male F344 rats were treated with 15 mg/kg body weight of AOM once a week for two weeks. Herbal extract consisting of 2% of the diet was administered from 1 d prior to the first carcinogen treatment. The number of AOM-induced ACF per colon was counted at 4 week. Extracts of Coptidis Rhizoma and Scutellariae Radix significantly inhibited AOM-induced ACF formation. The number of ACF was decreased to 54% and 78% of that of the control by 2% Coptidis Rhizoma and Scutellariae Radix extract in the diet, respectively. Berberine and Baicalin, major ingredients of Coptidis Rhizoma and Scutellariae Radix, inhibited ACF formation at a dose equivalent to the amount in each herbal extract. Therefore, to investigate the mechanisms of action of berberine and baicalein which is the active substances of orally administered baicalin, their effects on **cyclooxygenase** 1 and 2 activities were studied. Berberine was found to inhibit **cyclooxygenase** 2 activity without inhibition of **cyclooxygenase** 1 activity, and baicalein inhibited **cyclooxygenase** 1 activity. Thus, Coptidis Rhizoma and Scutellariae Radix suppressed experimental colon carcinogenesis, and their chemopreventive effects were explained from the inhibition of berberine on **cyclooxygenase** 2 activity and baicalein on **cyclooxygenase** 1 activity.
ACCESSION NUMBER: 1998414180 MEDLINE
DOCUMENT NUMBER: 98414180 PubMed ID: 9743248
TITLE: Inhibitory effect of Coptidis Rhizoma and Scutellariae Radix on azoxymethane-induced aberrant crypt foci formation in rat colon.
AUTHOR: Fukutake M; Yokota S; Kawamura H; Iizuka A; Amagaya S; Fukuda K; Komatsu Y
CORPORATE SOURCE: Central Research Laboratories, Tsumura & Co., Ibaraki, Japan.
SOURCE: BIOLOGICAL AND PHARMACEUTICAL BULLETIN, (1998 Aug) 21 (8) 814-7.
Journal code: 9311984. ISSN: 0918-6158.
PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals

ENTRY MONTH: 199811
ENTRY DATE: Entered STN: 19990106
Last Updated on STN: 19990106
Entered Medline: 19981117

L6 ANSWER 16 OF 54 MEDLINE
AB Extracts from the four plant species Atuna racemosa Raf. ssp. racemosa, Syzygium corynocarpum (A. Gray) C. Muell., Syzygium malaccense (L.) Merr. & Perry and Vantanea peruviana Macbr., traditionally used for inflammatory conditions, were fractionated using a **cyclooxygenase**-1 catalysed prostaglandin biosynthesis in vitro assay. The flavan-3-ol derivatives (+)-catechin, (+)-gallocatechin, 4'-O-Me-ent-gallocatechin, ouratea-catechin and ouratea-proanthocynidin A were isolated as active principles. The IC50 values ranged from 3.3 microM to 138 microM whilst indomethacin under the same test conditions had an IC50 value of 1.1 microM. The flavonol rhamnosides mearnsitrin, myricitrin and quercitrin were also isolated. When further tested for inhibitory effect on **cyclooxygenase**-2 catalysed prostaglandin biosynthesis, the five flavan-3-ol derivatives exhibited from equal to weaker inhibitory potencies, as compared to their **cyclooxygenase**-1 inhibitory effects. The flavonol rhamnosides were inactive towards both enzymes.
ACCESSION NUMBER: 1998413732 MEDLINE
DOCUMENT NUMBER: 98413732 PubMed ID: 9741297
TITLE: Flavan-3-ols isolated from some medicinal plants inhibiting COX-1 and COX-2 catalysed prostaglandin biosynthesis.
AUTHOR: Noreen Y; Serrano G; Perera P; Bohlin L
CORPORATE SOURCE: Department of Pharmacy, Uppsala University, Sweden.
SOURCE: PLANTA MEDICA, (1998 Aug) 64 (6) 520-4.
Journal code: 0066751. ISSN: 0032-0943.
PUB. COUNTRY: GERMANY: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199810
ENTRY DATE: Entered STN: 19981021
Last Updated on STN: 19990129
Entered Medline: 19981015

L6 ANSWER 17 OF 54 MEDLINE
AB The effect of adenosine on pulmonary vessels was studied in isolated perfused rat lungs. Drugs were administered intra-arterially in a fixed volume of 0.1 ml Krebs solution as bolus injections. Adenosine responses were obtained before and 10 min after drug injections. When applied in logarithmically increasing doses (1-100 micrograms/ml), adenosine caused dose-dependent increases in pulmonary perfusion pressure (e.g. pulmonary vasoconstriction) which were readily reversible. Challenging adenosine with quinidine, dihydroergocristine and cyproheptadine (2 micrograms/ml each) did not significantly alter adenosine responses. Pretreatment of lungs with 0.5 mM theophylline, 10 micrograms/ml indomethacin, 30 micrograms/ml tebokan (a PAF antagonist) or 1 microgram/ml methylene blue for 10 min, however, antagonized the vasoconstrictor effect of the drug significantly. From these experiments, it was concluded that the mechanisms underlying the pulmonary vasoconstrictor action of adenosine are complex, and that both types of purinoceptors, prostaglandins, PAF and other vascular endothelial hormones might be involved.
ACCESSION NUMBER: 1998315601 MEDLINE
DOCUMENT NUMBER: 98315601 PubMed ID: 9651801

TITLE: On the mechanisms of adenosine induced pulmonary vasoconstriction in rats.
AUTHOR: Kucukhuseyin C; Silan C; Akbas N; Payat M; Oncel H; Barlas A
CORPORATE SOURCE: Department of Pharmacology, Istanbul University, Cerrahpasa Medical Faculty, Istanbul, Turkey.
SOURCE: JOURNAL OF BASIC AND CLINICAL PHYSIOLOGY AND PHARMACOLOGY, (1997) 8 (4) 287-99.
Journal code: 9101750. ISSN: 0792-6855.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199809
ENTRY DATE: Entered STN: 19980925
Last Updated on STN: 19980925
Entered Medline: 19980916

L6 ANSWER 18 OF 54 MEDLINE

AB Although there have been numerous topical applications of plant extracts having flavonoids known as anti-inflammatory compounds, only a few studies were reported concerning effects of flavonoids on epidermal **cyclooxygenase**/lipoxygenase. In this investigation, effects of naturally occurring flavonoids on epidermal **cyclooxygenase** /lipoxygenase were studied using five selected derivatives: flavanone, apigenin (flavone), quercetin (flavonol), amentoflavone and ginkgetin (biflavone) because eicosanoids generated in the epidermis are believed to be involved in various biological activities of the skin. Microsomal and cytosolic fractions were obtained from guinea-pig epidermal homogenate by centrifugation and used as a source for **cyclooxygenase** and lipoxygenase. It was found that quercetin inhibited both **cyclooxygenase** and lipoxygenase, being more potent against lipoxygenase, while flavanone and apigenin did not show any inhibition. Amentoflavone, one of the biflavones tested, showed potent and selective inhibitory activity on **cyclooxygenase** (IC50 = 3 microM) which was comparable to indomethacin (IC50 = 1 microM). In contrast, structurally similar ginkgetin possessed weak inhibitory activity on **cyclooxygenase**. The in vivo effects of these flavonoids on the normal and diseased skin remain to be studied.

ACCESSION NUMBER: 1998141266 MEDLINE
DOCUMENT NUMBER: 98141266 PubMed ID: 9482162
TITLE: Effects of naturally-occurring flavonoids and biflavonoids on epidermal **cyclooxygenase** and lipoxygenase from guinea-pigs.
AUTHOR: Kim H P; Mani I; Iversen L; Ziboh V A
CORPORATE SOURCE: College of Pharmacy, Kangweon Nat'l. Univ., Chuncheon, Korea.
CONTRACT NUMBER: R01-30679
SOURCE: PROSTAGLANDINS LEUKOTRIENES AND ESSENTIAL FATTY ACIDS, (1998 Jan) 58 (1) 17-24.
Journal code: 8802730. ISSN: 0952-3278.
PUB. COUNTRY: SCOTLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199803
ENTRY DATE: Entered STN: 19980410

Last Updated on STN: 19980410
Entered Medline: 19980327

L6 ANSWER 19 OF 54 MEDLINE
AB Flavonoids are benzo-gamma-pyrone derivatives of plant origin. They possess wide spectrum of biological activity. From the therapeutical point of view the most important are their antioxidant properties. These are the result of high propensity to electron transfer, ferrous ions chelating activity and direct scavenging of reactive oxygen species. Flavonoids inhibit enormous number of enzymes. From the pharmacological point of view inhibition of **cyclooxygenase** and lipoxygenases as well as scavenging of superoxide anions seem to be essential. Flavonoids are antiinflammatory agents as the result of diminished formation of proinflammatory mediators (prostaglandins, leukotrienes, reactive oxygen species, nitric oxide). They are also antithrombotic owing to their ability to scavenge superoxide anions. These anions are strong inhibitors of prostacyclin production. Removal of superoxide anions by flavonoids facilitates antiaggregatory PGI2 formation. Superoxide anions generate proagregatory isoprostanes. The antiaggregatory effect of flavonoids may be due to the limitation of formation of isoprostanes. Empirical use of flavonoids as drugs acquired recently scientific confirmation.
ACCESSION NUMBER: 97267017 MEDLINE
DOCUMENT NUMBER: 97267017 PubMed ID: 9112694
TITLE: Bioactivity of flavonoids.
AUTHOR: Robak J; Gryglewski R J
CORPORATE SOURCE: Department of Pharmacology, Medical College of Jagiellonian University, Krakow, Poland.
SOURCE: POLISH JOURNAL OF PHARMACOLOGY, (1996 Nov-Dec) 48 (6) 555-64. Ref: 65
Journal code: 9313882. ISSN: 1230-6002.
PUB. COUNTRY: Poland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199706
ENTRY DATE: Entered STN: 19970709
Last Updated on STN: 19970709
Entered Medline: 19970626

L6 ANSWER 20 OF 54 MEDLINE
AB Sixteen constituents from Formosan Moraceous plants were tested for their antiplatelet activities in rabbit platelet suspension and human platelet-rich plasma. Cycloartocarpin A, cycloheterophyllin, broussochalcone A, kazinol A, broussoaurone A, and broussoflavonol F showed strong inhibition of arachidonic acid (AA)-induced platelet aggregation. Of the compounds tested, broussochalcone A exhibited the most potent inhibition of platelet aggregation induced by AA (IC50 = 6.8 microM). The antiplatelet effects of cycloheterophyllin, broussochalcone A, kazinol B, broussoaurone A, and broussoflavonol F are partially due to an inhibitory effect on **cyclooxygenase**.
ACCESSION NUMBER: 97017619 MEDLINE
DOCUMENT NUMBER: 97017619 PubMed ID: 8864236
TITLE: Novel antiplatelet constituents from formosan moraceous

plants.
AUTHOR: Lin C N; Lu C M; Lin H C; Fang S C; Shieh B J; Hsu M F; Wang J P; Ko F N; Teng C M
CORPORATE SOURCE: School of Pharmacy, Kaohsiung Medical College, Taiwan, Republic of China.
SOURCE: JOURNAL OF NATURAL PRODUCTS, (1996 Sep) 59 (9) 834-8. Journal code: 7906882. ISSN: 0163-3864.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199701
ENTRY DATE: Entered STN: 19970128
Last Updated on STN: 19970128
Entered Medline: 19970113

L6 ANSWER 21 OF 54 MEDLINE
AB Two new flavone glucosides, nevadensin 5-O-beta-D-glucoside and nevadensin
5-O-beta-D-glucosyl(1-->6)beta-D-glucoside, have been isolated from the aerial parts of Lysionotus pauciflorus. The structures have been determined by means of UV, mass spectral and one- and two-dimensional 1H and 13C NMR techniques.
ACCESSION NUMBER: 96273239 MEDLINE
DOCUMENT NUMBER: 96273239 PubMed ID: 8688190
TITLE: Nevadensin glycosides from Lysionotus pauciflorus.
AUTHOR: Liu Y; Wagner H; Bauer R
CORPORATE SOURCE: Institut fur Pharmazeutische Biologie, Universitat Munchen,
Germany.
SOURCE: PHYTOCHEMISTRY, (1996 Jul) 42 (4) 1203-5. Journal code: 0151434. ISSN: 0031-9422.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Biotechnology
ENTRY MONTH: 199608
ENTRY DATE: Entered STN: 19960911
Last Updated on STN: 19960911
Entered Medline: 19960826

L6 ANSWER 22 OF 54 MEDLINE
AB 1. The in vitro effects of centaureidin and 5,3'-dihydroxy-4'-methoxy-7-carbomethoxyflavonol (Fig. 1), two anti-inflammatory flavonoids extracted from Tanacetum microphyllum DC., have been examined on both **cyclooxygenase** and lipoxygenase activity. 2. These flavonoids produced an inhibition of soybean lipoxygenase activity in a dose-dependent manner, with IC50 values (20 and 29 microM respectively) similar to the reference drug. 3. The IC50 values for the in vitro inhibition of **cyclooxygenase** activity by these flavonoids, were higher than those that produced lipoxygenase activity (318 and 60 microM respectively). 4. These results suggest that the anti-inflammatory activity of our flavonoids may, at least in part, be due to the inhibition
of leukotriene synthesis. 5. This is the first report of the biological activity in vitro of these compounds.
ACCESSION NUMBER: 95361988 MEDLINE
DOCUMENT NUMBER: 95361988 PubMed ID: 7635257
TITLE: The activity of flavonoids extracted from Tanacetum microphyllum DC. (Compositae) on soybean lipoxygenase and

prostaglandin synthetase.
AUTHOR: Abad M J; Bermejo P; Villar A
CORPORATE SOURCE: Department of Pharmacology, Faculty of Pharmacy, University
Complutense, Madrid, Spain.
SOURCE: GENERAL PHARMACOLOGY, (1995 Jul) 26 (4) 815-9.
Journal code: 7602417. ISSN: 0306-3623.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199509
ENTRY DATE: Entered STN: 19950921
Last Updated on STN: 19950921
Entered Medline: 19950913

L6 ANSWER 23 OF 54 MEDLINE

AB Certain **bioflavonoids** and phenolic compounds have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring preparations. Inhibition of catecholamine reuptake with cocaine or catecholamine metabolism with tropolone and parglyine (monoamine oxidase and catecholamine-O-methyl transferase inhibitors, respectively) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein (10(-5) M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine alpha-1 and alpha-2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated that flavone potentiation required three contiguous A or B ring hydroxylations.

Several nonflavone phenol derivatives with three contiguous hydroxyls also potentiated nerve stimulation responses. As baicalein is a potent lipoxygenase inhibitor, comparisons were made between potentiating ability and lipoxygenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and potentiation of contractile responses in the femoral artery. Additionally, the specific substrate analog lipoxygenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the A or B ring increase in vitro vascular responsiveness via a post-synaptic process, independent of **cyclooxygenase**, lipoxygenase, monoamine oxidase or catecholamine-O-methyl transferase activity.

ACCESSION NUMBER: 93020379 MEDLINE
DOCUMENT NUMBER: 93020379 PubMed ID: 1403805
TITLE: Flavonoid potentiation of contractile responses in rat blood vessels.
AUTHOR: Berger M E; Golub M S; Chang C T; al-Kharouf J A; Nyby M D;
Hori M; Brickman A S; Tuck M L
CORPORATE SOURCE: Sepulveda VA Medical Center, California.
CONTRACT NUMBER: RO1 HL41295 (NHLBI)
SOURCE: JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1992 Oct) 263 (1) 78-83.

Journal code: 0376362. ISSN: 0022-3565.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199211
ENTRY DATE: Entered STN: 19930122
Last Updated on STN: 19970203
Entered Medline: 19921120

L6 ANSWER 24 OF 54 MEDLINE
AB Carrageenin paw oedema and croton oil ear oedema induced simultaneously in
rats are inhibited in a dose-dependent manner and to statistically significant degrees by lipoxygenase- and **cyclooxygenase**-blocker flavonoids (diosmin, fisetin, quercetin, myricetin, galangin, sophoricoside, hesperidin-methylchalcone, oligomeric procyanidin, anthocyanidins (delphinidin, pelargonidin], and the prostaglandin antagonist polyphloretin phosphate and di-4-phloretin phosphate. Outstanding anti-inflammatory effects are displayed by myricetin and delphinidin, which contain vicinal hydroxy groups in ring B. The results confirm the importance of hydroxy group substitution in ring B. The most effective of the examined substances proved to be the prostaglandin antagonist di-4-phloretin phosphate.
ACCESSION NUMBER: 92095096 MEDLINE
DOCUMENT NUMBER: 92095096 PubMed ID: 1755324
TITLE: Effect of benzopyrone derivatives on simultaneously induced
croton oil ear oedema and carrageenin paw oedema in rats.
AUTHOR: Gabor M; Razga Z
CORPORATE SOURCE: Department of Pharmacodynamics, Albert-Szent Gyorgyi University Medical School, Hungary.
SOURCE: ACTA PHYSIOLOGICA HUNGARICA, (1991) 77 (3-4) 197-207.
Journal code: 8309201. ISSN: 0231-424X.
PUB. COUNTRY: Hungary
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199201
ENTRY DATE: Entered STN: 19920216
Last Updated on STN: 19920216
Entered Medline: 19920130

L6 ANSWER 25 OF 54 MEDLINE
ACCESSION NUMBER: 90385090 MEDLINE
DOCUMENT NUMBER: 90385090 PubMed ID: 2119512
TITLE: Effect of flavonoids from Spanish and Indian medicinal herbs on arachidonate metabolism in rat peritoneal leukocytes.
AUTHOR: Ferrandiz M L; Ramachandran Nair A G; Alcaraz M J
CORPORATE SOURCE: Departamento de Farmacologia y Farmacotecnia, Facultad de Farmacia, Valencia, Spain.
SOURCE: PHARMAZIE, (1990 Jun) 45 (6) 444-5.
Journal code: 9800766. ISSN: 0031-7144.
PUB. COUNTRY: GERMANY, EAST: German Democratic Republic
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199010
ENTRY DATE: Entered STN: 19901122

Last Updated on STN: 19970203
Entered Medline: 19901019

L6 ANSWER 26 OF 54 MEDLINE

AB Sulfonic acids of quercetin and morin as well as their ferrous and cupric complexes were synthetized and investigated. Sulfonic derivatives of quercetin were much weaker inhibitors of soybean lipoxygenase than quercetin itself. Morin and its derivatives were inactive. Antioxidant properties of quercetin derivatives were in the same range as for quercetin. Most of the investigated compounds stimulate **cyclooxygenase** when 100 microM of arachidonic acid is used as a substrate. Ferrous complex of quercetin 5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 90356476 MEDLINE
DOCUMENT NUMBER: 90356476 PubMed ID: 2518221
TITLE: The influence of sulfonated **bioflavonoids** on enzymatic oxidation of arachidonic acid and on non-enzymatic lipid oxidation.
AUTHOR: Robak J; Kopacz M
CORPORATE SOURCE: Department of Pharmacology, Copernicus Academy of Medicine, Krakow, Poland.
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1989 Sep-Oct) 41 (5) 469-73.
Journal code: 0366561. ISSN: 0301-0244.
PUB. COUNTRY: Poland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199009
ENTRY DATE: Entered STN: 19901026
Last Updated on STN: 19970203
Entered Medline: 19900924

L6 ANSWER 27 OF 54 MEDLINE

AB The influence of 22 flavonoids was studied on the arachidonic acid metabolism in sonicated sheep platelets. Flavones and flavonols possessing catechol groups inhibited 12-lipoxygenase. Sideritoflavone and quercetagetin-7-O-beta-D-glucoside were more selective than quercetin. Cirsiliol, hypolaetin, hypolaetin-8-O-beta-D-glucoside, gossypetin, gossypin, hibifolin and leucocyanidol were also 12-lipoxygenase inhibitors with some differences in potency and selectivity. Xanthomicrol was a weak **cyclooxygenase** inhibitor. These results suggest that lipoxygenase inhibition can play a role in the anti-inflammatory activity of hypolaetin-8-O-beta-D-glucoside, sideritoflavone, gossypin and hibifolin. On the other hand, the presence of sideritoflavone, hypolaetin-8-O-beta-D-glucoside, cirsiliol and xanthomicrol in several species of Sideritis may provide a basis for the use of such plants as anti-inflammatory agents.

ACCESSION NUMBER: 90341392 MEDLINE
DOCUMENT NUMBER: 90341392 PubMed ID: 2116628
TITLE: Inhibition of sheep platelet arachidonate metabolism by flavonoids from Spanish and Indian medicinal herbs.
AUTHOR: Ferrandiz M L; Nair A G; Alcaraz M J
CORPORATE SOURCE: Departamento de Farmacologia y Farmacotecnia, Facultad de Farmacia, Valencia, Spain.
SOURCE: PHARMAZIE, (1990 Mar) 45 (3) 206-8.

Journal code: 9800766. ISSN: 0031-7144.
PUB. COUNTRY: GERMANY, EAST: German Democratic Republic
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199009
ENTRY DATE: Entered STN: 19901012
Last Updated on STN: 19901012
Entered Medline: 19900910

L6 ANSWER 28 OF 54 MEDLINE
AB Thirty nine flavonoids, isolated from plants, were tested in respect of their influence on soybean lipoxygenase activity, **cyclooxygenase** activity and inhibition of ascorbic acid-stimulated malonaldehyde formation in liver lipids. Almost all of the tested compounds were antioxidants and stimulated **cyclooxygenase** when arachidonic acid was used as a substrate at a concentration of 100 microM. Eleven flavonoids were inhibitors of soybean lipoxygenase. A good correlation between the chemical structure and the tested activity was observed. The most active compounds in all tests were luteolin, 6-hydroxyluteolin, nepetin, quercetagetin, patuletin and myricetin.
ACCESSION NUMBER: 89315476 MEDLINE
DOCUMENT NUMBER: 89315476 PubMed ID: 3151014
TITLE: Screening of the influence of flavonoids on lipoxygenase and **cyclooxygenase** activity, as well as on nonenzymic lipid oxidation.
AUTHOR: Robak J; Shridi F; Wolbis M; Krolikowska M
CORPORATE SOURCE: Department of Pharmacology, Copernicus Academy of Medicine,
Krakow, Poland.
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1988 Sep-Oct)
40 (5) 451-8.
Journal code: 0366561. ISSN: 0301-0244.
PUB. COUNTRY: Poland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198908
ENTRY DATE: Entered STN: 19900309
Last Updated on STN: 19970203
Entered Medline: 19890825

L6 ANSWER 29 OF 54 MEDLINE
AB A newly described plant-derived flavonoid, hypolaetin-8-glucoside, which has anti-inflammatory and gastroprotective actions in-vivo, and its corresponding aglycone, hypolaetin, have been compared with 14 other flavonoids for inhibition of eicosanoid generation via the 5-lipoxygenase and cyclo-oxygenase pathways in elicited rat peritoneal leukocytes stimulated with calcium ionophore. Comparable results for the inhibitory profiles of the compounds were obtained using either radioimmunoassay of released eicosanoids or radio-TLC of metabolites formed from labelled arachidonate, but there were differences in absolute potency of the inhibitors. Hypolaetin-8-glucoside was a weak but selective inhibitor of 5-lipoxygenase (IC50 56 microM vs 5-lipoxygenase; greater than 1000 microM vs cyclo-oxygenase), whereas the aglycone hypolaetin was a more potent and selective 5-lipoxygenase inhibitor (IC50 4.5 microM vs 70 microM). Results

with three other glycoside/aglycone pairs confirmed that addition of sugar residues greatly reduces inhibitory potency whilst retaining selectivity against 5-lipoxygenase. Analysis of 12 aglycone flavonoids showed that inhibitory potency and selectivity against 5-lipoxygenase is conferred by the presence of 3'4'-vicinal diol (catechol) in ring B as part of a 3,4-dihydroxycinnamoyl structure as proposed by others and by incorporation of additional hydroxyl substituents. In contrast, "cross-over" of inhibitory selectivity is observed in compounds containing few hydroxyl substituents (with none in ring B) which are selective against cyclo-oxygenase. These results are discussed in relation to possible mechanisms of hypolaetin-8-glucoside's protective actions and the concept that these inhibitory effects of flavonoids cannot be ascribed to a unitary free radical scavenging action.

ACCESSION NUMBER: 89216479 MEDLINE
DOCUMENT NUMBER: 89216479 PubMed ID: 2907559
TITLE: Selectivity of neutrophil 5-lipoxygenase and cyclo-oxygenase inhibition by an anti-inflammatory flavonoid glycoside and related aglycone flavonoids.
AUTHOR: Moroney M A; Alcaraz M J; Forder R A; Carey F; Hoult J R
CORPORATE SOURCE: Department of Pharmacology, King's College, Strand, London, UK.
SOURCE: JOURNAL OF PHARMACY AND PHARMACOLOGY, (1988 Nov) 40 (11) 787-92.
Journal code: 0376363. ISSN: 0022-3573.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198905
ENTRY DATE: Entered STN: 19900306
Last Updated on STN: 19970203
Entered Medline: 19890526

L6 ANSWER 30 OF 54 MEDLINE

AB Twenty flavonoids isolated from plants or transformed into methyl or acetyl derivatives were tested with regard to their influence on **cyclooxygenase** from the ram seminal vesicle microsomes and lipoxygenase from soya beans. Moreover, their antioxidant properties were evaluated by estimating the amount of the malonylaldehyde formed from arachidonic acid. Only rhamnetin and myricetin inhibited the soybean lipoxygenase. Most of the tested flavonoids stimulated **cyclooxygenase** at a high (100 microM) substrate concentration, myricetin being the most potent. Rhamnetin was the strongest antioxidant, while myricetin was about ten times weaker. Structural requirements for the **cyclooxygenase** stimulation, lipoxygenase inhibition and antioxidant properties were different in the case of the twenty tested flavonoids.

ACCESSION NUMBER: 87203683 MEDLINE
DOCUMENT NUMBER: 87203683 PubMed ID: 3106941
TITLE: The effect of some flavonoids on non-enzymatic lipid oxidation and enzymatic oxidation of arachidonic acid.
AUTHOR: Robak J; Duniec Z; Rzadkowska-Bodalska H; Olechnowicz-Stepien W; Cisowski W
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1986 Sep-Dec) 38 (5-6) 483-91.

Journal code: 0366561. ISSN: 0301-0244.
PUB. COUNTRY: Poland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198706
ENTRY DATE: Entered STN: 19900303
Last Updated on STN: 19970203
Entered Medline: 19870619

L6 ANSWER 31 OF 54 MEDLINE
ACCESSION NUMBER: 86094774 MEDLINE
DOCUMENT NUMBER: 86094774 PubMed ID: 3936076
TITLE: Effect of hypolaetin-8-glucoside on human platelet aggregation induced by ADP.
AUTHOR: Villar A; Gasco M A; Alcaraz M J
SOURCE: PLANTA MEDICA, (1985 Oct) (5) 455-6.
Journal code: 0066751. ISSN: 0032-0943.
PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198602
ENTRY DATE: Entered STN: 19900321
Last Updated on STN: 19900321
Entered Medline: 19860219

L6 ANSWER 32 OF 54 MEDLINE
AB Quercetin, rutin and troxerutin were found to inhibit platelet aggregation on collagen strip superfused with blood of anesthetized cats. Quercetin was the most potent acting at the dose of 1 micrograms/kg. Its effect was shortlasting. Troxerutin was a weak inhibitor of platelet aggregation and its effect was delayed. Quercetin inhibited in 50% 15-lipoxygenase and 12-lipoxygenase in vitro at the concentration of 1.3 microm and 13 microM respectively. It stimulated **cyclooxygenase** when 100 microM of arachidonic acid was applied. Quercetin inhibited **cyclooxygenase** in the presence of 1.6 microM of substrate. Rutin was a weaker inhibitor of lipoxygenase. Troxerutin was inactive in all experiments in vitro. It is concluded that unusually strong effect of quercetin in vivo can be explained neither by its influence on **cyclooxygenase** nor on lipoxygenase because the effects in vitro were observed in much higher concentrations.
ACCESSION NUMBER: 85190017 MEDLINE
DOCUMENT NUMBER: 85190017 PubMed ID: 6442773
TITLE: Antiaggregatory effects of flavonoids in vivo and their influence on lipoxygenase and **cyclooxygenase** in vitro.
AUTHOR: Swies J; Robak J; Dabrowski L; Duniec Z; Michalska Z; Gryglewski R J
SOURCE: POLISH JOURNAL OF PHARMACOLOGY AND PHARMACY, (1984 Sep-Oct) 36 (5) 455-63.
Journal code: 0366561. ISSN: 0301-0244.
PUB. COUNTRY: Poland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198506
ENTRY DATE: Entered STN: 19900320

Last Updated on STN: 19970203
Entered Medline: 19850619

L6 ANSWER 33 OF 54 MEDLINE
AB The lipoxygenase and/or **cyclooxygenase** inhibitors nordihydroguaiaretic acid (NDGA), 4,8,11,14-eicosatetraynoic acid (ETYA) and the **bioflavonoid**, quercetin, also inhibit phospholipase A2 (phosphatidase 2-acyl hydrolase; EC 3.1.1.4) activity of neutrophil acid extracts and sonicates. The IC50 are 13 microM for NDGA, 22 microM for ETYA, and 100 microM for quercetin when measured on the neutrophil acid extracts; the IC50 obtained with the sonicates are 11 microM, 12 microM and 57 microM, respectively. p-Bromophenylacyl bromide (BPB) inhibits the phospholipase A2 activity of neutrophil acid extracts with an IC50 of 10 microM. In contrast, intact neutrophils incubated for up to 1 h with BPB, washed to remove the drug, and sonicated to expose the phospholipase A2, lose less than 20% of their activity. This strongly suggests that BPB does not inhibit neutrophil function by preventing phospholipase action.
ACCESSION NUMBER: 85129557 MEDLINE
DOCUMENT NUMBER: 85129557 PubMed ID: 3972457
TITLE: Inhibition of neutrophil phospholipase A2 by p-bromophenylacyl bromide, nordihydroguaiaretic acid, 5,8,11,14-eicosatetraynoic acid and quercetin.
AUTHOR: Lanni C; Becker E L
CONTRACT NUMBER: AI-09648 (NIAID)
SOURCE: INTERNATIONAL ARCHIVES OF ALLERGY AND APPLIED IMMUNOLOGY, (1985) 76 (3) 214-7.
Journal code: 0404561. ISSN: 0020-5915.
PUB. COUNTRY: Switzerland
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198504
ENTRY DATE: Entered STN: 19900320
Last Updated on STN: 19970203
Entered Medline: 19850415

L6 ANSWER 34 OF 54 MEDLINE
AB The mechanism of the antiaggregating activity of flavonoids was studied in vitro. The activity of fifteen different compounds was tested on platelet aggregation and arachidonic acid metabolism. The effect of flavonoids on platelet adenosine 3',5'-cyclic monophosphate (cyclic AMP) levels under basal conditions, as well as after stimulation by prostacyclin (PGI2), was also measured. The glycons of flavonoids in general and the flavanone derivatives that we tested did not affect platelet function. On the other hand, flavone, chrysin , apigenin and phloretin inhibited platelet aggregation by depressing the **cyclooxygenase** pathway. In addition, flavone, chrysin and apigenin reduced the platelet cyclic AMP response to PGI2. This effect was probably mediated by an inhibition of adenylate cyclase. Myricetin and quercetin, however, increased the PGI2-stimulated rise of platelet cyclic AMP. Both of these flavonoids inhibited primarily lipoxygenase activity. Modification of platelet cyclic AMP metabolism through inhibition of phosphodiesterase activity was found to be the probable mechanism of their antiaggregating effect.
ACCESSION NUMBER: 84231526 MEDLINE
DOCUMENT NUMBER: 84231526 PubMed ID: 6329230
TITLE: Modification of platelet function and arachidonic acid

metabolism by **bioflavonoids**. Structure-activity relations.
AUTHOR: Landolfi R; Mower R L; Steiner M
CONTRACT NUMBER: HL 22951 (NHLBI)
SOURCE: BIOCHEMICAL PHARMACOLOGY, (1984 May 1) 33 (9) 1525-30. Journal code: 0101032. ISSN: 0006-2952.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198406
ENTRY DATE: Entered STN: 19900320
Last Updated on STN: 19970203
Entered Medline: 19840622

L6 ANSWER 35 OF 54 MEDLINE
AB Various flavonoids were found to be relatively selective inhibitors of arachidonate 5-lipoxygenase which initiates the biosynthesis of leukotrienes with the activity of slow reacting substance of anaphylaxis. Cirsiliol (3',4',5-trihydroxy-6,7-dimethoxyflavone) was most potent, and the enzyme partially purified from rat basophilic leukemia cells was inhibited by 97% at a concentration of 10 microM (IC50, about 0.1 microM).
12-Lipoxygenases from bovine platelets and porcine leukocytes were also inhibited but at higher concentrations (IC50, about 1 microM), and fatty acid **cyclooxygenase** purified from bovine vesicular gland was scarcely affected. The compound at 10 microM suppressed by 99% the immunological release of slow reacting substance of anaphylaxis from passively sensitized guinea pig lung (IC50, about 0.4 microM).
ACCESSION NUMBER: 84079869 MEDLINE
DOCUMENT NUMBER: 84079869 PubMed ID: 6418162
TITLE: Flavonoids: potent inhibitors of arachidonate 5-lipoxygenase.
AUTHOR: Yoshimoto T; Furukawa M; Yamamoto S; Horie T; Watanabe-Kohno S
SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1983 Oct 31) 116 (2) 612-8. Journal code: 0372516. ISSN: 0006-291X.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198401
ENTRY DATE: Entered STN: 19900319
Last Updated on STN: 19970203
Entered Medline: 19840107

L6 ANSWER 36 OF 54 MEDLINE
AB The stimulating or inhibiting influences of 33 phenolic compounds on the prostaglandin synthetase of rat renal medulla were tested. Dihydroxyphenylcarbonic acids clearly proved to be activators of the prostaglandin synthetase. Dimethoxyphenylcarbonic acids were ineffective. Aminoethylphenols as well as p-substituted monohydroxybenzenes with a carbonic acid side chain were clear stimulators in contrast to their alkyl
derivatives which are pronounced inhibitors. Among the tested **bioflavonoids** (+)-cyanidanol-3 and morin were inhibitors of the prostaglandin synthesis. Flavonoids with polar substitution in 3,5,7-position such as rutin on the other hand showed activating properties.

ACCESSION NUMBER: 80011690 MEDLINE
DOCUMENT NUMBER: 80011690 PubMed ID: 113685
TITLE: A structure-activity study on the influence of phenolic compounds and **bioflavonoids** on rat renal prostaglandin synthetase.
AUTHOR: Baumann J; von Bruchhausen F; Wurm G
SOURCE: NAUNYN-SCHMIEDEBERGS ARCHIVES OF PHARMACOLOGY, (1979 May 28) 307 (1) 73-8.
Journal code: 0326264. ISSN: 0028-1298.
PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 197911
ENTRY DATE: Entered STN: 19900315
Last Updated on STN: 19900315
Entered Medline: 19791128

L6 ANSWER 37 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Amentoflavone, a biflavonoid with antiinflammatory activity, downregulates
COX-2 expression in TNFalpha-activated A549 cells with concomitant inhibition of NF-kappaB mediated signaling cascades. We demonstrate here that amentoflavone inhibits NF-kappaB/DNA binding activity potently along with inhibition of degradation of IkappaBalpha and NF-kappaB translocation
into nucleus in TNFalpha-activated A549 cells. This flavonoid upregulates PPAR gamma, a transcription factor involved in repressing many cytokine-induced gene expressions. Hence amentoflavone, a dietary constituent, may be of therapeutic value for several lung diseases where COX-2 plays an important role.
ACCESSION NUMBER: 2002:560089 BIOSIS
DOCUMENT NUMBER: PREV200200560089
TITLE: Inhibition of TNFalpha-induced **cyclooxygenase**-2 expression by amentoflavone through suppression of NF-kappaB activation in A549 cells.
AUTHOR(S): Banerjee, Tinku (1); Valacchi, Giuseppe; Ziboh, Vincent A.;
van der Vliet, Albert
CORPORATE SOURCE: (1) Department of Dermatology, School of Medicine, University of California, TB No. 192, Davis, CA, 95616: tinku2@hotmail.com USA
SOURCE: Molecular and Cellular Biochemistry, (September, 2002) Vol.
238, No. 1-2, pp. 105-110.
http://www.kluweronline.com/issn
/0300-8177. print.
ISSN: 0300-8177.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 38 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Inflammation is complex series of vascular, leukocyte, and plasma-interactive events of the immune responses that occur in response to injury. The immune response is regulated by a highly complexed and intricate network of control elements. A dynamic and ever-shifting balance
exists between pro-inflammatory cytokines and anti-inflammatory components
of the human immune system. The regulation of inflammation by these

cytokines and cytokine inhibitors is complicated by the fact that the immune system has redundant pathways with multiple elements having similar physiologic effects. In this study, we isolated and identified the anti-inflammatory molecule, tetramethoxyflavone (p7F) from Artemisia absinthium and investigated their ability to inhibit the inflammatory responses. p7F inhibited the following effects: 1) IL-1-induced proliferation of Th2 cells, 2) TNF-a-induced expressions of ICAM-1, COX-2 and iNOS. However, anti-inflammatory cytokine IL-4 and IL-10 were up-regulated. Thus, these inhibitors can be clinically applied in the treatment of autoimmune diseases such as rheumatoid arthritis.

ACCESSION NUMBER: 2002:370536 BIOSIS
DOCUMENT NUMBER: PREV200200370536
TITLE: Identification of p7F, a **bioflavonoid** from natural product and analysis of its anti-inflammatory effects.
AUTHOR(S): Lee, HeeGu (1); Kim, HyoSun (1); Yu, KyungAe (1); Choe, YongKyung (1); Lim, Jong-Seok (1); Yoon, Do-Young (1)
CORPORATE SOURCE: (1) Cell Biol Lab, KRIBB, Yuseong, P. O. Box 115, Taejon, ChungNam, 303-333 South Korea
SOURCE: FASEB Journal, (March 22, 2002) Vol. 16, No. 5, pp. A1054. http://www.fasebj.org/. print.
Meeting Info.: Annual Meeting of Professional Research Scientists on Experimental Biology New Orleans, Louisiana, USA April 20-24, 2002
ISSN: 0892-6638.
DOCUMENT TYPE: Conference
LANGUAGE: English

L6 ANSWER 39 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB A method for inhibiting **cyclooxygenase** enzymes and inflammation in a mammal using a cherry or cherry anthocyanins, **bioflavonoids** and phenolics is described. In particular a mixture including the anthocyanins, the **bioflavonoids** and the phenolics is described for this use.

ACCESSION NUMBER: 2001:390039 BIOSIS
DOCUMENT NUMBER: PREV200100390039
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry **bioflavonoids**.
AUTHOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.
ASSIGNEE: Board of Trustees operating Michigan State Univeristy, East Lansing, MI, USA
PATENT INFORMATION: US 6194469 February 27, 2001
SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (Feb. 27, 2001) Vol. 1243, No. 4, pp. No Pagination. e-file.
ISSN: 0098-1133.
DOCUMENT TYPE: Patent
LANGUAGE: English

L6 ANSWER 40 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Several flavonoids and isoflavonoids isolated from BalatonTM tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an IC50 value of 80 muM. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 muM. The structure-activity relationships of flavonoids and isoflavonoids revealed

that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.

ACCESSION NUMBER: 2000:341746 BIOSIS
DOCUMENT NUMBER: PREV200000341746
TITLE: **Cyclooxygenase** active **bioflavonoids** from BalatonTM tart cherry and their structure activity relationships.
AUTHOR(S): Wang, H.; Nair, M. G. (1); Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CORPORATE SOURCE: (1) Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, East Lansing, MI, 48824 USA
SOURCE: Phytomedicine (Jena), (March, 2000) Vol. 7, No. 1, pp. 15-19. print.
ISSN: 0944-7113.
DOCUMENT TYPE: Article
LANGUAGE: English
SUMMARY LANGUAGE: English

L6 ANSWER 41 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Biflavonoid is one of unique classes of naturally-occurring **bioflavonoids**. Certain biflavonoids including amentoflavone were previously reported to have inhibitory effect on the group II phospholipase A2 activity. Amentoflavone was also found to inhibit **cyclooxygenase** from guinea-pig epidermis without affecting lipoxygenase. In this study, anti-inflammatory and analgesic activities of amentoflavone were evaluated. When amentoflavone was administered intraperitoneally, it showed a potent anti-inflammatory activity as determined by amelioration of croton-oil induced mouse ear edema. It also showed a potent anti-inflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone (35 mg/kg) and indomethacin (10 mg/kg). However, amentoflavone did not show a significant inhibitory activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addition, amentoflavone was found to possess a potent analgesic activity in the acetic acid writhing test (ED50 = 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that amentoflavone may be a potential lead for a new type of anti-inflammatory agents having dual inhibitory activity of group II phospholipase A, and **cyclooxygenase**.
ACCESSION NUMBER: 1998:437991 BIOSIS
DOCUMENT NUMBER: PREV199800437991
TITLE: Amentoflavone, a plant biflavone: A new potential anti-inflammatory agent.
AUTHOR(S): Kim, Hee Kee; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam Sik; Kim, Hyun Pyo (1)
CORPORATE SOURCE: (1) Coll. Pharm., Kangwon Natl. Univ., Chunchon 200-701 South Korea
SOURCE: Archives of Pharmacal Research (Seoul), (Aug., 1998) Vol. 21, No. 4, pp. 406-410.
ISSN: 0253-6269.
DOCUMENT TYPE: Article

LANGUAGE: English

L6 ANSWER 42 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Flavonoids with special hydroxylation patterns are inhibitors of **cyclooxygenase** and lipoxygenases of the arachidonic acid cascade. To get metabolically more stable compounds with higher lipophilicity and with a similar molecular topography 2-phenyl-1,4-naphthoquinones with analogous hydroxylation patterns of **bioflavonoids** are synthesized on two different ways: 1. Meerwein arylation of 1,4-naphthoquinones (1a-e) with methoxybenzendiazonium tetrafluoroborates (2a-b) and 2. regiospecific respectively regioselective arylation of 2-halogen- and 2,3-dihalogen-1,4-naphthoquinone derivatives (9a-d) with 2,6-di-tert-butylphenol followed by partial or complete debutylation. In the case of preparing 4-hydroxyphenyl derivatives, the second way is the more effective method because the synthesis by Meerwein arylation needs two additional protecting groups. The final deprotection results in rather low yields. With the second method without additional protecting procedures it was possible to get 12c and 13c in quite a short time. These two compounds posses the essential hydroxyl functions for the inhibition of cyclo- and 5-lipoxygenase as the natural flavonoids apigenin and kaempferol do.
ACCESSION NUMBER: 1997:519405 BIOSIS
DOCUMENT NUMBER: PREV199799818608
TITLE: 1,4-Naphthoquinones, XXVI: Phenyl-1,4-naphthoquinone derivatives with the hydroxylation patterns of **bioflavonoids**.
AUTHOR(S): Wurm, G. (1); Gurka, H.-J.
CORPORATE SOURCE: (1) Inst. Pharm. I, Koenigin-Luise-Str. 2-4, D-14195 Berlin
Germany
SOURCE: Pharmazie, (1997) Vol. 52, No. 10, pp. 739.
ISSN: 0031-7144.
DOCUMENT TYPE: Article
LANGUAGE: German
SUMMARY LANGUAGE: German; English

L6 ANSWER 43 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Certain **bioflavonoids** and phenolic compounds have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring preparations. Inhibition of catecholamine reuptake with cocaine or catecholamine metabolism with tropolone and parglyine (monoamine oxidase and catecholamine-O-methyl transferase inhibitors, respectively) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein (10-5 M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine alpha-1 and alpha-2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated tht flavone potentiation required three contiguous A or B in hydroxylations. Several nonflavone phenol derivatives with three contiguous hydroxyls also potentiated nerve stimulation responses. As baicalein is a potent lipoxygenase inhibitor, comparisons were made between potentiating ability and lipoxygenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and

potentiation of contractile response in the femoral artery. Additionally, the specific substrate analog lipoxygenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the a or b ring increase in vitro vascular responsiveness via post-synaptic process, independent of **cyclooxygenase**, lipoxygenase, monoamine oxidase or catecholamine-O-methyl transferase activity.

ACCESSION NUMBER: 1993:31884 BIOSIS
DOCUMENT NUMBER: PREV199395020084
TITLE: Flavonoid potentiation of contractile responses in rat blood vessels.
AUTHOR(S): Berger, Morris E.; Golub, Michael S. (1); Chang, Chwen-Tzuei; Al-Kharouf, Jawad A.; Nyby, Michael D.; Hori, Mark; Brickman, Arnold S.; Tuck, Michael L.
CORPORATE SOURCE: (1) Sepulveda VA Med. Center, 16111 Plummer St., Sepulveda, Calif. 91343
SOURCE: Journal of Pharmacology and Experimental Therapeutics, (1992) Vol. 263, No. 1, pp. 78-83. ISSN: 0022-3565.
DOCUMENT TYPE: Article
LANGUAGE: English

L6 ANSWER 44 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB Sulfonic acids of quercetin and morin as well as their ferrous and cupric complexes were synthetized and investigated. Sulfonic derivatives of quercetin were much weaker inhibitors of soybean lipoxygenase than quercetin itself. Morin and its derivatives were inactive. Antioxidant properties of quercetin derivatives were in the same range as for quercetin. Most of the investigated compounds stimulate **cyclooxygenase** when 100 .mu.M of arachidonic acid is used as a substrate. Ferrous complex of quercetin 5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 1990:418342 BIOSIS
DOCUMENT NUMBER: BA90:79143
TITLE: THE INFLUENCE OF SULFONATED **BIOFLAVONOIDS** ON ENZYMATIC OXIDATION OF ARACHIDONIC ACID AND ON NON-ENZYMATIC LIPID OXIDATION.
AUTHOR(S): ROBAK J; KOPACZ M
CORPORATE SOURCE: DEP. PHARMACOL., COPERNICUS ACAD. OF MED., 31-531 KRAKOW, GRZEGORZECKA 16, POLAND.
SOURCE: POL J PHARMACOL PHARM, (1989 (1990)) 41 (5), 469-474. CODEN: PJPPAA. ISSN: 0301-0244.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L6 ANSWER 45 OF 54 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AB The lipoxygenase and/or **cyclooxygenase** inhibitors nordihydroguaiaretic acid (NDGA), 5, 8, 11, 14-eicosatetrayenoic acid (ETYA) and the **bioflavonoid**, quercetin, also inhibit phospholipase A2 (phosphatidase 2-acyl hydrolase; EC 3.1.1.4) activity of [rabbit] neutrophil acid extracts and sonicates. The IC50 are 13 .mu.M for NDGA, 22 .mu.M for ETYA and 100 .mu.M for quercetin when measured on the neutrophil acid extracts; the IC50 obtained with the sonicates are 11, 12 and 57 .mu.M, respectively. p-Bromophenylacyl bromide (BPB) inhibits the phospholipase A2 activity of neutrophil acid extracts with an IC50 of 10 .mu.M. Intact neutrophils incubated for up to 1 h with BPB, washed to

remove the drug and sonicated to expose the phospholipase A2, lose < 20% of their activity. This strongly suggests that BPB does not inhibit neutrophil function by preventing phospholipase action.

ACCESSION NUMBER: 1985:312250 BIOSIS
DOCUMENT NUMBER: BA79:92246
TITLE: INHIBITION OF NEUTROPHIL PHOSPHOLIPASE A-2 BY P BROMOPHENYLACYL BROMIDE NORDIHYDROGUAIARETIC-ACID 5 8 11 14 EICOSATETRAENOIC-ACID AND QUERCETIN.
AUTHOR(S): LANNI C; BECKER E L
CORPORATE SOURCE: DEP. PATHOLOGY, UNIV. CONN. HEALTH CENTER, FARMINGTON, CT 06032, USA.
SOURCE: INT ARCH ALLERGY APPL IMMUNOL, (1985) 76 (3), 214-217. CODEN: IAAAAM. ISSN: 0020-5915.
FILE SEGMENT: BA; OLD
LANGUAGE: English

L6 ANSWER 46 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB The invention describes methods of using creatine compds. such as creatine kinase inhibitors, and more particularly, cyclocreatine and homocyclocreatine, to inhibit thrombin-induced cytoskeletal reorganization, platelet aggregation, inflammatory processes, endothelial cell contraction and related cardiovascular and CNS disorders. Pharmaceutically effective amts. of creatine compds. are administered to subjects in need thereof to thereby prevent and/or treat diseases and/or pathol. conditions such as thrombosis, thrombocytopenia, atherosclerosis, coronary artery disease, unstable angina pectoris, myocardial infarction, stroke, coagulopathies, and transient ischemia attacks.

ACCESSION NUMBER: 2002:616366 CAPLUS
DOCUMENT NUMBER: 137:163806
TITLE: Inhibition of thrombin-induced platelet aggregation by creatine kinase inhibitors
INVENTOR(S): Mahajan, Vinit; Cunningham, Dennis D.; Pai, Sadashiva
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 20 pp. CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002111316	A1	20020815	US 2001-960822	20010921
US 6444695	B2	20020903		

PRIORITY APPLN. INFO.: US 2000-234875P P 20000921

L6 ANSWER 47 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB Claimed is a method for inhibiting **cyclooxygenase** or prostaglandin H synthase and for inhibiting inflammation with at least one compd. anthocyanin selected from the group consisting of cyanidin-3-glucosylrutinoside, cyanidin-3-rutinoside and cyanidin-3-glucoside isolated from the fruit of a cherry. In particular a mixt. including the anthocyanins, **bioflavonoids** and phenolics is described for this use.

ACCESSION NUMBER: 2001:146488 CAPLUS

DOCUMENT NUMBER: 134:183458
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry **bioflavonoids**
INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.
PATENT ASSIGNEE(S): Board of Trustees Operating Michigan State University,
USA
SOURCE: U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6194469	B1	20010227	US 1999-337313	19990621
US 6423365	B1	20020723	US 1999-317310	19990524
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1137429	A2	20011004	EP 1999-966092	19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002531493	T2	20020924	JP 2000-586317	19991210
US 2001020009	A1	20010906	US 2000-749856	20001228

PRIORITY APPLN. INFO.:
US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L6 ANSWER 48 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB Several flavonoids and isoflavonoids isolated from Balaton tart cherry were assayed for prostaglandin H endoperoxide synthase (PGHS-1) enzyme or **cyclooxygenase** isoform-1 (COX-1) activity. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids studied, with an
IC50 value of 80 .mu.M. Kaempferol gave the highest COX-1 inhibitory activity among the flavonoids tested, with an IC50 value of 180 .mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5 and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, a hydroxyl group at the position decreased COX-1 inhibitory activity by flavonoids.
ACCESSION NUMBER: 2000:407652 CAPLUS

DOCUMENT NUMBER: 133:261100
TITLE: **Cyclooxygenase** active **bioflavonoids** from Balaton tart cherry and their structure activity relationships
AUTHOR(S): Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CORPORATE SOURCE: Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA
SOURCE: Phytomedicine (2000), 7(1), 15-19
CODEN: PYTOEY; ISSN: 0944-7113
PUBLISHER: Urban & Fischer Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L6 ANSWER 49 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB A method for inhibiting **cyclooxygenase** (COX) enzymes and inflammation in a mammal using a cherry or cherry anthocyanins, **bioflavonoids**, and phenolics is described. Among the flavonoids tested, kaempferol showed the highest COX-1 inhibitory activity with an IC50 value of 180.mu.M, followed by luteolin, quercetin, naringenin and quercetin 3-rhamnoside. Genistein showed the highest COX-1 inhibitory activity among the isoflavonoids tested with an IC50 value of 80.mu.M. The structure-activity relationships of flavonoids and isoflavonoids revealed that hydroxyl groups at C4', C5, and C7 in isoflavonoids were essential for appreciable COX-1 inhibitory activity. Also, the C2-C3 double bond in flavonoids is important for COX-1 inhibitory activity. However, hydroxyl group at C3' position decreased the COX-1/COX-2 inhibitory activity by flavonoids.
ACCESSION NUMBER: 2000:401636 CAPLUS
DOCUMENT NUMBER: 133:26836
TITLE: Method for inhibiting **cyclooxygenase** and inflammation using cherry **bioflavonoids**
INVENTOR(S): Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.; Gray, James I.
PATENT ASSIGNEE(S): Michigan State University, USA
SOURCE: PCT Int. Appl., 33 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000033824	A2	20000615	WO 1999-US29261	19991210
WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6423365	B1	20020723	US 1999-317310	19990524	
US 6194469	B1	20010227	US 1999-337313	19990621	
EP 1137429	A2	20011004	EP 1999-966092	19991210	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
JP 2002531493	T2	20020924	JP 2000-586317	19991210	

PRIORITY APPLN. INFO.:

US 1998-111945P	P	19981211
US 1999-120178P	P	19990216
US 1999-317310	A2	19990524
US 1999-337313	A2	19990621
WO 1999-US29261	W	19991210

L6 ANSWER 50 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB A red blood cell storage compn. includes a compn. of red blood cells and biochem. altering reagents, the biochem. altering reagents being present at a concn. so as to reduce the percent hemolysis of the red blood cells during the freeze-thaw cycle below that of the percent hemolysis of the red blood cells in the absence of the biochem. altering reagents. The red blood cell storage compn. preferably includes reagents selected from: modifiers of glycolytic/metabolic components, modifiers of antioxidant potential, effectors of intracellular ionic distribution, modifiers of membrane fluidity, modifiers of cytoskeletal structure, effectors of the **cyclooxygenase** second messenger pathway, effectors of the lipoxygenase second messenger pathway, effectors of the hexose monophosphate second messenger pathway, effectors of the phosphorylation second messenger pathway, modifiers of specific messenger mols., and combinations thereof.

ACCESSION NUMBER: 1999:763819 CAPLUS
DOCUMENT NUMBER: 132:1812
TITLE: Cryopreservation of human red blood cells
INVENTOR(S): Livesey, Stephen Anthony; Burnett, Michael Brian; Connor, Jerome; Wagner, Christopher Todd
PATENT ASSIGNEE(S): Lifecell Corporation, USA
SOURCE: PCT Int. Appl., 39 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9960849	A1	19991202	WO 1999-US11674	19990526
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2332986	AA	19991202	CA 1999-2332986	19990526
AU 9942097	A1	19991213	AU 1999-42097	19990526
EP 1082006	A1	20010314	EP 1999-925899	19990526
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002516254	T2	20020604	JP 2000-550327	19990526

PRIORITY APPLN. INFO.:

US 1998-86836P	P	19980526

WO 1999-US11674 W 19990526
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L6 ANSWER 51 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB Biflavonoid is one of unique of naturally-occurring **bioflavonoids**. Certain biflavonoids, including amentoflavone (I), were previously reported to have inhibitory effect on group II phospholipase A2 activity. I was also found to inhibit arachidonate **cyclooxygenase** from guinea pig epidermis without affecting lipoxygenase. Here, the antiinflammatory and analgesic activities of I were evaluated. When I was administered i.p., it showed a potent antiinflammatory activity as detd. by amelioration of croton oil-induced mouse ear edema. I also showed a potent antiinflammatory activity in the rat carrageenan paw edema model (ED50 = 42 mg/kg) compared to the activity of prednisolone (35 mg/kg) and indomethacin (10 mg/kg). However, I did not show a significant inhibitory activity against rat adjuvant-induced arthritis, a chronic inflammatory model. In addn., I was found to possess a potent analgesic activity in the acetic acid writhing test (ED50 = 9.6 mg/kg) compared to the activity of indomethacin (3.8 mg/kg). These results suggest that I may be a potential lead for a new type of antiinflammatory agents having dual inhibitory activity for group II phospholipase A2 and arachidonate **cyclooxygenase**.
ACCESSION NUMBER: 1998:539672 CAPLUS
DOCUMENT NUMBER: 129:285741
TITLE: Amentoflavone, a plant biflavone: a new potential anti-inflammatory agent
AUTHOR(S): Kim, Hee Kee; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam Sik; Kim, Hyun Pyo
CORPORATE SOURCE: College of Pharmacy, Kangwon National Univ., Chunchon, 200-701, S. Korea
SOURCE: Archives of Pharmacal Research (1998), 21(4), 406-410
CODEN: APHRDQ; ISSN: 0253-6269
PUBLISHER: Pharmaceutical Society of Korea
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L6 ANSWER 52 OF 54 CAPLUS COPYRIGHT 2003 ACS
AB Certain **bioflavonoids** and phenolic compds. have long been known to enhance catecholamine responses, in vivo and in vitro. In the present studies the flavone, baicalein, potentiated nerve-stimulated contractions in vitro in rat tail and femoral artery isometric ring prepns. Inhibition of catecholamine reuptake with cocaine or catecholamine metab. with tropolone and pargyline (monoamine oxidase and catecholamine-O-Me transferase inhibitors, resp.) did not alter baicalein's ability to potentiate contractile responses to nerve stimulation. Baicalein (10-5 M), the prototype flavone, also increased sensitivity to exogenous norepinephrine, serotonin, arginine vasopressin and to the noncatecholamine .alpha.-1 and .alpha.-2 adrenergic agonists, cirazoline and tramazoline. Structure-function studies indicated that flavone potentiation required three contiguous A or B ring hydroxylations.

Several nonflavone phenol derivs. with three contiguous hydroxyls also potentiated nerve stimulation responses. As baicalein is a potent lipoxygenase inhibitor, comparisons were made between potentiating ability and lipoxygenase inhibitory activity in a series of flavonoids. There was no direct correlation between inhibition of 12-hydroxy-5,8,10,14-eicosatetraenoic acid levels in thrombin stimulated human platelets and potentiation of contractile responses in the femoral artery. Addnl., the specific substrate analog lipoxygenase inhibitor, 5,8,11-eicosatriynoic acid, and the **cyclooxygenase** inhibitor, ibuprofen, were nonpotentiating. Ibuprofen pretreatment did not alter the potentiating action of baicalein. It is concluded that flavonoids with three contiguous hydroxyls on either the A or B ring increase in vitro vascular responsiveness via a postsynaptic process, independent of **cyclooxygenase**, lipoxygenase, monoamine oxidase or catecholamine-O-Me transferase activity.

ACCESSION NUMBER: 1993:93787 CAPLUS
DOCUMENT NUMBER: 118:93787
TITLE: Flavonoid potentiation of contractile responses in rat blood vessels
AUTHOR(S): Berger, Morris E.; Golub, Michael S.; Chang, Chwen Tzuei; Al-Kharouf, Jawad A.; Nyby, Michael D.; Hori, Mark; Brickman, Arnold S.; Tuck, Michael L.
CORPORATE SOURCE: Sepulveda VA Med. Cent., Sepulveda, CA, USA
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1992), 263(1), 78-83
CODEN: JPETAB; ISSN: 0022-3565
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 53 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB Sulfonic acids of quercetin and morin and their ferrous and cupric ion complexes were synthesized and investigated. Sulfonic derivs. of quercetin were much weaker inhibitors of soybean lipoxygenase than quercetin itself. Morin and its deriv. were inactive. The antioxidant properties of quercetin derivs. were in the same range as those of quercetin. Most of the investigated compds. stimulated **cyclooxygenase** when 100 .mu.M of arachidonic acid was used as a substrate. The ferrous complex of quercetin-5'-sulfonic acid was an inhibitor of this enzyme.

ACCESSION NUMBER: 1990:584662 CAPLUS
DOCUMENT NUMBER: 113:184662
TITLE: The influence of sulfonated **bioflavonoids** on enzymic oxidation of arachidonic acid and on nonenzymic lipid oxidation
AUTHOR(S): Robak, Jadwiga; Kopacz, Maria
CORPORATE SOURCE: Dep. Pharmacol., Copernicus Acad. Med., Krakow, 31-531, Pol.
SOURCE: Polish Journal of Pharmacology and Pharmacy (1989), 41(5), 469-73
CODEN: PJPPAA; ISSN: 0301-0244
DOCUMENT TYPE: Journal
LANGUAGE: English

L6 ANSWER 54 OF 54 CAPLUS COPYRIGHT 2003 ACS

AB The mechanism of the antiaggregating activity of flavonoids was studied in vitro. The activity of 15 different compds. was tested on platelet

aggregation and arachidonic acid [506-32-1] metab. The effect of flavonoids on platelet adenosine cyclic AMP [60-92-4] levels under basal conditions, as well as after stimulation by prostacyclin (PGI2) [35121-78-9], was also measure. The glycons of flavonoids in general and the flavanone derivs. that were tested did not affect platelet function. On the other hand flavone [525-82-6], chrysin [480-40-0], apigenin [520-36-5] and phloretin [60-82-2] inhibited platelet aggregation by depressing the **cyclooxygenase** [39391-18-9] pathway. In addn., flavone, chrysin and apigenin reduced the platelet cyclic AMP response to PGI2. This effect was probably mediated by an inhibition of adenylate cyclase [9012-42-4]. Myricetin [529-44-2] and quercetin [117-39-5] however, increased the PGI2-stimulated rise of platelet cyclic AMP. Both of these flavonoids inhibited primarily lipoxygenase [9029-60-1] activity. Modification of platelet cyclic AMP metab. through inhibition of phosphodiesterase [9025-82-5] activity was found to be the probable mechanism of their antiaggregating effect.

ACCESSION NUMBER: 1984:448182 CAPLUS
DOCUMENT NUMBER: 101:48182
TITLE: Modification of platelet function and arachidonic acid metabolism by **bioflavonoids**. Structure-activity relations
AUTHOR(S): Landolfi, Raffaele; Mower, Richard L.; Steiner, Manfred
CORPORATE SOURCE: Mem. Hosp., Brown Univ., Pawtucket, RI, 02860, USA
SOURCE: Biochemical Pharmacology (1984), 33(9), 1525-30
CODEN: BCPCA6; ISSN: 0006-2952
DOCUMENT TYPE: Journal
LANGUAGE: English

=> s inhibition and nuclear(w)factor(w)kappa(w)B?
TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
1 FILES SEARCHED...
TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
2 FILES SEARCHED...
3 FILES SEARCHED...
TERM 'B?' EXCEEDED TRUNCATION LIMITS - SEARCH ENDED
COMMAND INTERRUPTED
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=> s inhibition and cyclooxygenase?
L7 18064 INHIBITION AND CYCLOOXYGENASE?

=> s l7 and rutin?
L8 27 L7 AND RUTIN?

=> d l8 1-27

L8 ANSWER 1 OF 27 MEDLINE
AN 2002416113 MEDLINE
DN 22093079 PubMed ID: 12098601
TI In vitro and in vivo inhibitory activities of **rutin**, wogonin, and quercetin on lipopolysaccharide-induced nitric oxide and prostaglandin E(2) production.
AU Shen Shing-Chuan; Lee Woan-Ruoh; Lin Hui-Yi; Huang Ho-Chun; Ko Ching-Huai;

Yang Ling-Ling; Chen Yen-Chou
CS Department of Dermatology, School of Medicine, Taipei Medical University, Taipei, Taiwan.
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (2002 Jun 20) 446 (1-3) 187-94.
Journal code: 1254354. ISSN: 0014-2999.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200301
ED Entered STN: 20020813
Last Updated on STN: 20030109
Entered Medline: 20030108

L8 ANSWER 2 OF 27 MEDLINE
AN 2001455188 MEDLINE
DN 21392035 PubMed ID: 11500931
TI **Inhibition** of nitric oxide synthase inhibitors and lipopolysaccharide induced inducible NOS and **cyclooxygenase**-2 gene expressions by **rutin**, quercetin, and quercetin pentaacetate in RAW 264.7 macrophages.
AU Chen Y C; Shen S C; Lee W R; Hou W C; Yang L L; Lee T J
CS Graduate Institute of Pharmacognosy Science, Taipei Medical University, Taipei, Taiwan.. yc3270@tmu.edu.tw
SO JOURNAL OF CELLULAR BIOCHEMISTRY, (2001) 82 (4) 537-48.
Journal code: 8205768. ISSN: 0730-2312.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200110
ED Entered STN: 20010814
Last Updated on STN: 20011015
Entered Medline: 20011011

L8 ANSWER 3 OF 27 MEDLINE
AN 88283567 MEDLINE
DN 88283567 PubMed ID: 3293993
TI Use of minoxidil to demonstrate that prostacyclin is not the mediator of bone resorption stimulated by growth factors in mouse calvariae.
AU Tashjian A H Jr; Bosma T J; Levine L
CS Laboratory of Toxicology, Harvard School of Public Health, Boston, Massachusetts 02115.
NC DK-10206 (NIDDK)
GM-27256 (NIGMS)
SO ENDOCRINOLOGY, (1988 Aug) 123 (2) 969-74.
Journal code: 0375040. ISSN: 0013-7227.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Abridged Index Medicus Journals; Priority Journals
EM 198808
ED Entered STN: 19900308
Last Updated on STN: 20000303
Entered Medline: 19880829

L8 ANSWER 4 OF 27 MEDLINE
AN 85226521 MEDLINE
DN 85226521 PubMed ID: 3924112
TI Interference of some flavonoids and non-steroidal anti-inflammatory drugs

with oxidative metabolism of arachidonic acid by human platelets and neutrophils.
AU Corvazier E; Maclouf J
SO BIOCHIMICA ET BIOPHYSICA ACTA, (1985 Jul 9) 835 (2) 315-21.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198508
ED Entered STN: 19900320
Last Updated on STN: 19970203
Entered Medline: 19850816

L8 ANSWER 5 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:437786 BIOSIS
DN PREV200200437786
TI In vitro and in vivo inhibitory activities of **rutin**, wogonin, and quercetin on lipopolysaccharide-induced nitric oxide and prostaglandin
E2 production.
AU Shen, Shing-Chuan; Lee, Woan-Ruoh; Lin, Hui-Yi; Huang, Ho-Chun; Ko, Ching-Huai; Yang, Ling-Ling; Chen, Yen-Chou (1)
CS (1) Graduate Institute of Pharmacognosy Science, Taipei Medical University, 250 Wu-Hsing Street, Taipei: yc3270@tmu.edu.tw Taiwan
SO European Journal of Pharmacology, (20 June, 2002) Vol. 446, No. 1-3, pp. 187-194. http://www.elsevier.com/locate/ejpmolpharm. print.
ISSN: 0014-2999.
DT Article
LA English

L8 ANSWER 6 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:408783 BIOSIS
DN PREV200100408783
TI **Inhibition** of nitric oxide synthase inhibitors and lipopolysaccharide induced inducible NOS and **cyclooxygenase**-2 gene expressions by **rutin**, quercetin, and quercetin pentaacetate in RAW 264.7 macrophages.
AU Chen, Yen-Chou (1); Shen, Shing-Chuan; Lee, Woan-Ruoh; Hou, Wen-Chi; Yang,
Ling-Ling; Lee, Tony J. F.
CS (1) Graduate Institute of Pharmacognosy Science, Taipei Medical College, 250 Wu-Hsing Street, Taipei: yc3270@tmu.edu.tw Taiwan
SO Journal of Cellular Biochemistry, (2001) Vol. 82, No. 4, pp. 537-548. print.
ISSN: 0730-2312.
DT Article
LA English
SL English

L8 ANSWER 7 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1988:416750 BIOSIS
DN BA86:79362
TI USE OF MINOXIDIL TO DEMONSTRATE THAT PROSTACYCLIN IS NOT THE MEDIATOR OF BONE RESORPTION STIMULATED BY GROWTH FACTORS IN MOUSE CALVARIAE.
AU TASHJIAN A H JR; BOSMA T J; LEVINE L
CS LAB. TOXICOL., HARVARD SCH. PUBLIC HEALTH, 665 HUNTINGTON AVE., BOSTON, MASS. 02115.
SO ENDOCRINOLOGY, (1988) 123 (2), 969-974.
CODEN: ENDOAO. ISSN: 0013-7227.

FS BA; OLD
LA English

L8 ANSWER 8 OF 27 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1985:428170 BIOSIS
DN BA80:98162
TI INTERFERENCE OF SOME FLAVONOIDS AND NON-STEROIDAL ANTI-INFLAMMATORY DRUGS WITH OXIDATIVE METABOLISM OF ARACHIDONIC-ACID BY HUMAN PLATELETS AND NEUTROPHILS.
AU CORVAZIER E; MACLOUF J
CS U150 INSERM, LA 334 CNRS, HOPITAL LARIBOISIERE, 6 RUE GUY PATIN, 75475 PARIS, CEDEX 10 FRANCE.
SO BIOCHIM BIOPHYS ACTA, (1985) 835 (2), 315-321.
CODEN: BBACAQ. ISSN: 0006-3002.
FS BA; OLD
LA English

L8 ANSWER 9 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2003:22700 CAPLUS
TI Method for generating, screening, and dereplicating natural product libraries for the discovery of therapeutic agents
IN Jia, Qi; Hong, Mei-Feng
PA Unigen Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 111 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003002134	A1	20030109	WO 2002-US20602	20020627

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2001-301523P P 20010627
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2002:495905 CAPLUS
TI In vitro and in vivo inhibitory activities of **rutin**, wogonin, and quercetin on lipopolysaccharide-induced nitric oxide and prostaglandin
E2 production
AU Shen, Shing-Chuan; Lee, Woan-Ruoh; Lin, Hui-Yi; Huang, Ho-Chun; Ko, Ching-Huai; Yang, Ling-Ling; Chen, Yen-Chou
CS Department of Dermatology, Taipei Medical University, School of Medicine, Taipei, Taiwan
SO European Journal of Pharmacology (2002), 446(1-3), 187-194
CODEN: EJPHAZ; ISSN: 0014-2999
PB Elsevier Science B.V.
DT Journal
LA English

RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:596841 CAPLUS
DN 135:366462
TI **Inhibition** of nitric oxide synthase inhibitors and lipopolysaccharide induced inducible NOS and **cyclooxygenase**-2 gene expressions by **rutin**, quercetin, and quercetin pentaacetate in RAW 264.7 macrophages
AU Chen, Yen-Chou; Shen, Shing-Chuan; Lee, Woan-Ruoh; Hou, Wen-Chi; Yang, Ling-Ling; Lee, Tony J. F.
CS Graduate Institute of Pharmacognosy Science, Taipei Medical University, Taipei, Taiwan
SO Journal of Cellular Biochemistry (2001), 82(4), 537-548
CODEN: JCEBD5; ISSN: 0730-2312
PB Wiley-Liss, Inc.
DT Journal
LA English
RE.CNT 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 12 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:334148 CAPLUS
DN 135:190040
TI Suppression of inducible **cyclooxygenase** and nitric oxide synthase through activation of peroxisome proliferator-activated receptor-.gamma. by flavonoids in mouse macrophages
AU Liang, Y.-C.; Tsai, S.-H.; Tsai, D.-C.; Lin-Shiau, S.-Y.; Lin, J.-K.
CS Institute of Biochemistry, College of Medicine, No. 1, Section 1, Jen-Ai Road, National Taiwan University, Taipei, Taiwan
SO FEBS Letters (2001), 496(1), 12-18
CODEN: FEBLAL; ISSN: 0014-5793
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 13 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2001:146488 CAPLUS
DN 134:183458
TI Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids
IN Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.;
Gray, James I.
PA Board of Trustees Operating Michigan State University, USA
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194469	B1	20010227	US 1999-337313	19990621
	US 6423365	B1	20020723	US 1999-317310	19990524
	WO 2000033824	A2	20000615	WO 1999-US29261	19991210
	WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,

DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1137429 A2 20011004 EP 1999-966092 19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2002531493 T2 20020924 JP 2000-586317 19991210
US 2001020009 A1 20010906 US 2000-749856 20001228
PRAI US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 14 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 2000:407652 CAPLUS
DN 133:261100
TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships
AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CS Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA
SO Phytomedicine (2000), 7(1), 15-19
CODEN: PYTOEY; ISSN: 0944-7113
PB Urban & Fischer Verlag
DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 15 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1998:423593 CAPLUS
DN 129:121895
TI Nutritional benefits of flavonoids
AU Frankel, Edwin N.
CS Department of Food Science and Technology, University of California, Davis, CA, 95616, USA
SO Food Factors for Cancer Prevention, [International Conference on Food Factors: Chemistry and Cancer Prevention], Hamamatsu, Japan, Dec., 1995 (1997), Meeting Date 1995, 613-616. Editor(s): Ohigashi, Hajime. Publisher: Springer, Tokyo, Japan.
CODEN: 66HYAL
DT Conference; General Review
LA English

L8 ANSWER 16 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1994:499320 CAPLUS
DN 121:99320
TI **Inhibition** of histamine secretion from mast cells by lipoxygenase- and **cyclooxygenase** inhibitors
AU Grupe, R.; Ziska, T.

CS Biopharm Co. Ltd., Berlin, D-10315, Germany
SO Agents and Actions (1994), 41(Spec. Conf. Issue), C34-C36
CODEN: AGACBH; ISSN: 0065-4299
DT Journal
LA English

L8 ANSWER 17 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1992:379 CAPLUS
DN 116:379
TI **Inhibition** of mammalian 5-lipoxygenase and cyclo-oxygenase by flavonoids and phenolic dietary additives. Relationship to antioxidant activity and to iron ion-reducing ability
AU Laughton, Miranda J.; Evans, Patricia J.; Moroney, Michele A.; Hoult, J. R. S.; Halliwell, Barry
CS Dep. Biochem., King's Coll. London, London, WC2R 2LS, UK
SO Biochemical Pharmacology (1991), 42(9), 1673-81
CODEN: BCPCA6; ISSN: 0006-2952
DT Journal
LA English

L8 ANSWER 18 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1991:505958 CAPLUS
DN 115:105958
TI Effects of flavonoids of ginseng leaves on erythrocyte membranes against damage by singlet oxygen
AU Park, Soo Nam; Choi, Sang Won; Boo, Yong Chool; Kim, Chang Kew; Lee, Tae Young
CS Pac. Res. Dev. Cent., Seoul, 156-010, S. Korea
SO Koryo Insam Hakhoechi (1990), 14(2), 191-9
CODEN: KINHEK; ISSN: 1016-2615
DT Journal
LA English

L8 ANSWER 19 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1991:178060 CAPLUS
DN 114:178060
TI Influence of **cyclooxygenase**- (COX-) and lipoxygenase- (LOX-) **inhibition** on the degranulation of activated peritoneal rat mast cells (pRMC) in vitro
AU Grupe, R.
CS Pharmakol. Forschungsges., Biopharm G.m.b.H., Berlin-Friedrichsfelde, D-1136, Germany
SO Agents and Actions (1991), 32(1-2), 79-81
CODEN: AGACBH; ISSN: 0065-4299
DT Journal
LA English

L8 ANSWER 20 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1990:470703 CAPLUS
DN 113:70703
TI **Inhibition** of sheep platelet arachidonate metabolism by flavonoids from Spanish and Indian medicinal herbs
AU Ferrandiz, M. L.; Ramachandran Nair, A. G.; Alcaraz, M. J.
CS Dep. Farmacol. Farmacotec., Fac. Farm., Valencia, 46010, Spain
SO Pharmazie (1990), 45(3), 206-8
CODEN: PHARAT; ISSN: 0031-7144
DT Journal
LA English

L8 ANSWER 21 OF 27 CAPLUS COPYRIGHT 2003 ACS

AN 1989:433123 CAPLUS
DN 111:33123
TI Screening of the influence of flavonoids on lipoxygenase and **cyclooxygenase** activity, as well as on nonenzymic lipid oxidation
AU Robak, Jadwiga; Shridi, Farouk; Wolbis, Maria; Krolikowska, Maria
CS Dep. Pharmacol., Copernicus Acad. Med., Krakow, 31-531, Pol.
SO Polish Journal of Pharmacology and Pharmacy (1988), 40(5), 451-8
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English

L8 ANSWER 22 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1989:18112 CAPLUS
DN 110:18112
TI Selectivity of neutrophil 5-lipoxygenase and **cyclooxygenase inhibition** by an anti-inflammatory flavonoid glycoside and related aglycone flavonoids
AU Moroney, M. A.; Alcaraz, M. J.; Forder, R. A.; Carey, F.; Hoult, J. R. S.
CS Dep. Pharmacol., King's Coll., Strand/London, WC2R 2LS, UK
SO Journal of Pharmacy and Pharmacology (1988), 40(11), 787-92
CODEN: JPPMAB; ISSN: 0022-3573
DT Journal
LA English

L8 ANSWER 23 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1988:486900 CAPLUS
DN 109:86900
TI Use of minoxidil to demonstrate that prostacyclin is not the mediator of bone resorption stimulated by growth factors in mouse calvariae
AU Tashjian, Armen H., Jr.; Bosma, Thomas J.; Levine, Lawrence
CS Lab. Toxicol., Harvard Sch. Public Health, Boston, MA, 02115, USA
SO Endocrinology (1988), 123(2), 969-74
CODEN: ENDOAO; ISSN: 0013-7227
DT Journal
LA English

L8 ANSWER 24 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1986:508161 CAPLUS
DN 105:108161
TI Flavonoids - lipoxygenases - platelet aggregation
AU Gryglewski, R. J.; Robak, J.; Swies, J.
CS Dep. Pharmacol., N. Copernicus Acad. Med., Krakow, 31-531, Pol.
SO NATO ASI Series, Series A: Life Sciences (1985), 95(Drugs Affecting Leukotriens Other Eicosanoid Pathways), 149-66
CODEN: NALSDJ; ISSN: 0258-1213
DT Journal
LA English

L8 ANSWER 25 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1985:464389 CAPLUS
DN 103:64389
TI Interference of some flavonoids and nonsteroidal anti-inflammatory drugs with oxidative metabolism of arachidonic acid by human platelets and neutrophils
AU Corvazier, Elisabeth; Maclouf, Jacques
CS CNRS, Hop. Lariboisiere, Paris, 75475, Fr.
SO Biochimica et Biophysica Acta (1985), 835(2), 315-21
CODEN: BBACAQ; ISSN: 0006-3002
DT Journal
LA English

L8 ANSWER 26 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1985:416593 CAPLUS
DN 103:16593
TI Antiaggregatory effects of flavonoids in vivo and their influence on lipoxygenase and **cyclooxygenase** in vitro
AU Swies, Jozef; Robak, Jadwiga; Dabrowski, Lech; Duniec, Zofia; Michalska, Zofia; Gryglewski, Ryszard J.
CS Inst. Pharmacol., N. Copernicus Acad. Med., Krakow, 31-531, Pol.
SO Polish Journal of Pharmacology and Pharmacy (1984), 36(5), 455-63
CODEN: PJPPAA; ISSN: 0301-0244
DT Journal
LA English

L8 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2003 ACS
AN 1983:189 CAPLUS
DN 98:189
TI Effect of flavonoids on arachidonic acid metabolism
AU Wurm, G.; Baumann, J.; Geres, U.
CS Inst. Pharm., Freien Univ. Berlin, Berlin, 1000/33, Fed. Rep. Ger.
SO Deutsche Apotheker Zeitung (1982), 122(41), 2062-8
CODEN: DAZEA2; ISSN: 0011-9857
DT Journal
LA German

=> s l7 and apiosylglucoside?
L9 0 L7 AND APIOSYLGLUCOSIDE?

=> s l7 and apiin?
L10 0 L7 AND APIIN?

=> s l7 and genistein?
L11 94 L7 AND GENISTEIN?

=> s l7 and genistin?
L12 2 L7 AND GENISTIN?

=> d l12 1-2

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2001:146488 CAPLUS
DN 134:183458
TI Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids
IN Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.;
Gray, James I.
PA Board of Trustees Operating Michigan State University, USA
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194469	B1	20010227	US 1999-337313	19990621
	US 6423365	B1	20020723	US 1999-317310	19990524
	WO 2000033824	A2	20000615	WO 1999-US29261	19991210
	WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1137429 A2 20011004 EP 1999-966092 19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2002531493 T2 20020924 JP 2000-586317 19991210
US 2001020009 A1 20010906 US 2000-749856 20001228
PRAI US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS
AN 2000:407652 CAPLUS
DN 133:261100
TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships
AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CS Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA
SO Phytomedicine (2000), 7(1), 15-19
CODEN: PYTOEY; ISSN: 0944-7113
PB Urban & Fischer Verlag
DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l11 1-94

L11 ANSWER 1 OF 94 MEDLINE
AN 2002262518 MEDLINE
DN 21965866 PubMed ID: 11970914
TI Estrogen acutely activates prostacyclin synthesis in ovine fetal pulmonary artery endothelium.
AU Sherman Todd S; Chambliss Ken L; Gibson Linda L; Pace Margaret C; Mendelsohn Michael E; Pfister Sandra L; Shaul Philip W
CS Department of Pediatrics, University of Texas Southwestern Medical Center at Dallas, Dallas, Texas 75390-9063, USA.
NC HD30276 (NICHD)
HL53546 (NHLBI)
HL63494 (NHLBI)
SO AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY, (2002 May) 26 (5) 610-6.
Journal code: 8917225. ISSN: 1044-1549.
CY United States

DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200205
ED Entered STN: 20020511
Last Updated on STN: 20020515
Entered Medline: 20020514

L11 ANSWER 2 OF 94 MEDLINE
AN 2001210628 MEDLINE
DN 21196037 PubMed ID: 11298294
TI Leishmania donovani-induced macrophages **cyclooxygenase**-2 and prostaglandin E2 synthesis.
AU Matte C; Maion G; Mourad W; Olivier M
CS Centre de Recherche en Infectiologie, Universite Laval, Ste-Foy, Quebec, Canada. Centre de Rhumatologie et Immunologie du CHUL, Universite Laval, Ste-Foy, Quebec, Canada.
SO PARASITE IMMUNOLOGY, (2001 Apr) 23 (4) 177-84.
Journal code: 7910948. ISSN: 0141-9838.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200105
ED Entered STN: 20010517
Last Updated on STN: 20010517
Entered Medline: 20010510

L11 ANSWER 3 OF 94 MEDLINE
AN 2001193262 MEDLINE
DN 21108067 PubMed ID: 11164947
TI The "in vivo" and "ex vivo" roles of cylcooxygenase-2, nuclear factor-kappaB and protein kinases pathways in the up-regulation of B1 receptor-mediated contraction of the rabbit aorta.
AU Medeiros R; Cabrini D A; Calixto J B
CS Department of Pharmacology, Centre of Biological Sciences, Federal University of Santa Catarina, Rua Ferreira Lima 82, 88015-420 Florianopolis, SC, Brazil.
SO REGULATORY PEPTIDES, (2001 Mar 2) 97 (2-3) 121-30.
Journal code: 8100479. ISSN: 0167-0115.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200104
ED Entered STN: 20010410
Last Updated on STN: 20010410
Entered Medline: 20010405

L11 ANSWER 4 OF 94 MEDLINE
AN 2000247095 MEDLINE
DN 20247095 PubMed ID: 10783318
TI Suppression of **cyclooxygenase**-2 promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure.
AU Mutoh M; Takahashi M; Fukuda K; Matsushima-Hibiya Y; Mutoh H; Sugimura T; Wakabayashi K
CS Cancer Prevention Division, National Cancer Center Research Institute, 1-1
Tsukiji 5-chome, Chuo-ku, Tokyo 104-0045, Japan.

SO CARCINOGENESIS, (2000 May) 21 (5) 959-63.
Journal code: 8008055. ISSN: 0143-3334.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200006
ED Entered STN: 20000622
Last Updated on STN: 20000622
Entered Medline: 20000615

L11 ANSWER 5 OF 94 MEDLINE
AN 2000135409 MEDLINE
DN 20135409 PubMed ID: 10672854
TI **Genistein** potentiates the relaxation induced by beta1- and beta2-adrenoceptor activation in rat aortic rings.
AU Satake N; Imanishi M; Keto Y; Yamada H; Ishikawa M; Shibata S
CS Department of Pharmacology, University of Hawaii, School of Medicine, Honolulu 96822, USA.
SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (2000 Feb) 35 (2) 227-33.
Journal code: 7902492. ISSN: 0160-2446.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200003
ED Entered STN: 20000327
Last Updated on STN: 20000327
Entered Medline: 20000313

L11 ANSWER 6 OF 94 MEDLINE
AN 2000006366 MEDLINE
DN 20006366 PubMed ID: 10534581
TI **Inhibition** of cGMP accumulation in mesangial cells by bradykinin and tyrosine kinase inhibitors.
AU Alric C; Pecher C; Tack I; Schanstra J P; Bascands J L; Girolami J P
CS Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, CHU Rangueil, 31403 Toulouse Cedex, France.
SO INTERNATIONAL JOURNAL OF MOLECULAR MEDICINE, (1999 Nov) 4 (5) 557-64.
Journal code: 9810955. ISSN: 1107-3756.
CY Greece
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199912
ED Entered STN: 20000113
Last Updated on STN: 20000113
Entered Medline: 19991215

L11 ANSWER 7 OF 94 MEDLINE
AN 1999435951 MEDLINE
DN 99435951 PubMed ID: 10506109
TI Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages.
AU Liang Y C; Huang Y T; Tsai S H; Lin-Shiau S Y; Chen C F; Lin J K
CS Institute of Biochemistry, College of Medicine, National Taiwan University, No. 1, Section 1, Taipei, Taiwan.
SO CARCINOGENESIS, (1999 Oct) 20 (10) 1945-52.
Journal code: 8008055. ISSN: 0143-3334.
CY ENGLAND: United Kingdom

DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199911
ED Entered STN: 20000111
Last Updated on STN: 20000111
Entered Medline: 19991104

L11 ANSWER 8 OF 94 MEDLINE
AN 1999360881 MEDLINE
DN 99360881 PubMed ID: 10433499
TI Induction of prostanoid, nitric oxide, and cytokine formation in rat bone marrow derived macrophages by activin A.
AU Nusing R M; Barsig J
CS Department of Pediatrics, Philipps University, Marburg, Germany.. nuesing@mailer.uni-marburg.de
SO BRITISH JOURNAL OF PHARMACOLOGY, (1999 Jun) 127 (4) 919-26.
Journal code: 7502536. ISSN: 0007-1188.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199908
ED Entered STN: 19990910
Last Updated on STN: 19990910
Entered Medline: 19990826

L11 ANSWER 9 OF 94 MEDLINE
AN 1999250279 MEDLINE
DN 99250279 PubMed ID: 10233682
TI Arachidonic acid, but not its metabolites, is essential for FcgammaR-stimulated intracellular killing of Staphylococcus aureus by human monocytes.
AU Zheng L; Zomerdijk T P; Van Den Barselaar M T; Geertsma M F; Van Furth R; Nibbering P H
CS Department of Infectious Diseases, C5-P, Leiden University Medical Center,
PO Box 9600, 2300 RC Leiden, The Netherlands.
SO IMMUNOLOGY, (1999 Jan) 96 (1) 90-7.
Journal code: 0374672. ISSN: 0019-2805.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199907
ED Entered STN: 19990730
Last Updated on STN: 19990730
Entered Medline: 19990722

L11 ANSWER 10 OF 94 MEDLINE
AN 1999231888 MEDLINE
DN 99231888 PubMed ID: 10217536
TI Induction of cyclo-oxygenase-2 expression by methyl arachidonyl fluorophosphonate in murine J774 macrophages: roles of protein kinase C, ERKs and p38 MAPK.
AU Lin W W; Chen B C
CS Department of Pharmacology, College of Medicine, National Taiwan University, Taipei.. wwl@ha.mc.ntu.edu.tw
SO BRITISH JOURNAL OF PHARMACOLOGY, (1999 Mar) 126 (6) 1419-25.
Journal code: 7502536. ISSN: 0007-1188.

CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199906
ED Entered STN: 19990712
Last Updated on STN: 20010716
Entered Medline: 19990622

L11 ANSWER 11 OF 94 MEDLINE
AN 1999062597 MEDLINE
DN 99062597 PubMed ID: 9846167
TI Type I collagen influence on gene expression in UMR106-06 osteoblast-like cells is inhibited by **genistein**.
AU Celic S; Katayama Y; Chilco P J; Martin T J; Findlay D M
CS St Vincent's Institute of Medical Research, Fitzroy, Victoria, Australia.
SO JOURNAL OF ENDOCRINOLOGY, (1998 Sep) 158 (3) 377-88.
Journal code: 0375363. ISSN: 0022-0795.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199812
ED Entered STN: 19990115
Last Updated on STN: 19990115
Entered Medline: 19981216

L11 ANSWER 12 OF 94 MEDLINE
AN 1999057889 MEDLINE
DN 99057889 PubMed ID: 9837905
TI Induction of mitogen-activated protein kinase phosphatase-1 by arachidonic
acid in vascular smooth muscle cells.
AU Metzler B; Hu Y; Sturm G; Wick G; Xu Q
CS Institute for Biomedical Aging Research, Austrian Academy of Sciences, A-6020 Innsbruck, Austria.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1998 Dec 11) 273 (50) 33320-6.
Journal code: 2985121R. ISSN: 0021-9258.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199901
ED Entered STN: 19990128
Last Updated on STN: 19990128
Entered Medline: 19990114

L11 ANSWER 13 OF 94 MEDLINE
AN 1999036013 MEDLINE
DN 99036013 PubMed ID: 9820127
TI Dual effects of nimesulide, a COX-2 inhibitor, in human platelets.
AU Saeed S A; Afzal M N; Shah B H
CS Department of Physiology and Pharmacology, The Aga Khan University Medical
College, Karachi, Pakistan.. arshad.saeed@aku.edu
SO LIFE SCIENCES, (1998) 63 (20) 1835-41.
Journal code: 0375521. ISSN: 0024-3205.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)

LA English
FS Priority Journals
EM 199812
ED Entered STN: 19990115
Last Updated on STN: 20000303
Entered Medline: 19981201

L11 ANSWER 14 OF 94 MEDLINE
AN 1999011407 MEDLINE
DN 99011407 PubMed ID: 9792802
TI Evidence for a tyrosine kinase-dependent activation of the adenylyl Cyclase/PKA cascade downstream from the G-protein-linked endothelin ETA receptor in vascular smooth muscle.
AU El-Mowafy A M; White R E
CS Department of Physiology and Biophysics, Wright State University School of Medicine, Dayton, Ohio, 45435, USA.
NC HL54844 (NHLBI)
SO BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (1998 Oct 20) 251 (2) 494-500.
Journal code: 0372516. ISSN: 0006-291X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199811
ED Entered STN: 19990106
Last Updated on STN: 20000303
Entered Medline: 19981123

L11 ANSWER 15 OF 94 MEDLINE
AN 1998236998 MEDLINE
DN 98236998 PubMed ID: 9576062
TI Tumour necrosis factor-alpha-dependent regulation of prostaglandin endoperoxide synthase-2.
AU Mahboubi K; Young W; Ferreri N R
CS Department of Pharmacology, New York Medical College, Valhalla, USA.
SO CYTOKINE, (1998 Mar) 10 (3) 175-84.
Journal code: 9005353. ISSN: 1043-4666.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199806
ED Entered STN: 19980713
Last Updated on STN: 19980713
Entered Medline: 19980626

L11 ANSWER 16 OF 94 MEDLINE
AN 1998205036 MEDLINE
DN 98205036 PubMed ID: 9536028
TI Parallel contractile signal transduction pathways activated by receptors for thrombin and epidermal growth factor-urogastrone in guinea pig gastric smooth muscle: blockade by inhibitors of mitogen-activated protein kinase-kinase and phosphatidyl inositol 3'-kinase.
AU Zheng X L; Renaux B; Hollenberg M D
CS Endocrine Research Group, Department of Pharmacology & Therapeutics, The University of Calgary Faculty of Medicine, Calgary, Alberta, Canada T2N

4N1.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1998 Apr) 285 (1) 325-34.
Journal code: 0376362. ISSN: 0022-3565.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199805
ED Entered STN: 19980520
Last Updated on STN: 20000303
Entered Medline: 19980512

L11 ANSWER 17 OF 94 MEDLINE
AN 1998161857 MEDLINE
DN 98161857 PubMed ID: 9495802
TI On the induction of **cyclooxygenase**-2, inducible nitric oxide synthase and soluble phospholipase A2 in rat mesangial cells by a nonsteroidal anti-inflammatory drug: the role of cyclic AMP.
AU Klein T; Ullrich V; Pfeilschifter J; Nusing R
CS Department of Pediatrics, Philipps University, D-35033 Marburg, Germany.. kleinvt@byk.de
SO MOLECULAR PHARMACOLOGY, (1998 Mar) 53 (3) 385-91.
Journal code: 0035623. ISSN: 0026-895X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199803
ED Entered STN: 19980410
Last Updated on STN: 19990129
Entered Medline: 19980327

L11 ANSWER 18 OF 94 MEDLINE
AN 97446194 MEDLINE
DN 97446194 PubMed ID: 9299378
TI Bradykinin B2-receptor-mediated stimulation of exocytotic noradrenaline release from cardiac sympathetic neurons.
AU Kurz T; Tolg R; Richardt G
CS Medizinische Klinik II, Medical University, Lubeck, Germany.
SO JOURNAL OF MOLECULAR AND CELLULAR CARDIOLOGY, (1997 Sep) 29 (9) 2561-9.
Journal code: 0262322. ISSN: 0022-2828.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199710
ED Entered STN: 19971105
Last Updated on STN: 19971105
Entered Medline: 19971023

L11 ANSWER 19 OF 94 MEDLINE
AN 97433109 MEDLINE
DN 97433109 PubMed ID: 9288778
TI Enhancement of experimental colon cancer by **genistein**.
AU Rao C V; Wang C X; Simi B; Lubet R; Kelloff G; Steele V; Reddy B S
CS Division of Nutritional Carcinogenesis, American Health Foundation, Valhalla, New York 10595, USA.
NC CA17613 (NCI)
NO1CN-25450-01 (NCI)

SO CANCER RESEARCH, (1997 Sep 1) 57 (17) 3717-22.
Journal code: 2984705R. ISSN: 0008-5472.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199709
ED Entered STN: 19971008
Last Updated on STN: 20020420
Entered Medline: 19970924

L11 ANSWER 20 OF 94 MEDLINE
AN 97413528 MEDLINE
DN 97413528 PubMed ID: 9269943
TI Differential signaling pathways in platelet-activating factor-induced proliferation and interleukin-6 production by rat vascular smooth muscle cells.
AU Gaumond F; Fortin D; Stankova J; Rola-Pleszczynski M
CS Department of Pediatrics, Faculty of Medicine, Universite de Sherbrooke, Sherbrooke QC, Canada.
SO JOURNAL OF CARDIOVASCULAR PHARMACOLOGY, (1997 Aug) 30 (2) 169-75.
Journal code: 7902492. ISSN: 0160-2446.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199710
ED Entered STN: 19971013
Last Updated on STN: 20021218
Entered Medline: 19971001

L11 ANSWER 21 OF 94 MEDLINE
AN 97366761 MEDLINE
DN 97366761 PubMed ID: 9223591
TI Contractile action of ethanol in guinea pig gastric smooth muscle: **inhibition** by tyrosine kinase inhibitors and comparison with the contractile action of epidermal growth factor-urogastrone.
AU Zheng X L; Mokashi S; Hollenberg M D
CS Department of Pharmacology and Therapeutics, The University of Calgary, Faculty of Medicine, Alberta, Canada.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1997 Jul) 282 (1) 485-95.
Journal code: 0376362. ISSN: 0022-3565.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199708
ED Entered STN: 19970813
Last Updated on STN: 20000303
Entered Medline: 19970807

L11 ANSWER 22 OF 94 MEDLINE
AN 97133899 MEDLINE
DN 97133899 PubMed ID: 8979294
TI Protein kinase Cs and tyrosine kinases in permissive action of prostacyclin on cerebrovascular regulation in newborn pigs.
AU Rama G P; Parfenova H; Leffler C W
CS Department of Physiology/Biophysics, University of Tennessee, Memphis 38163, USA.

NC HL34059 (NHLBI)
HL42851 (NHLBI)
SO PEDIATRIC RESEARCH, (1997 Jan) 41 (1) 83-9.
Journal code: 0100714. ISSN: 0031-3998.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199703
ED Entered STN: 19970327
Last Updated on STN: 19980206
Entered Medline: 19970318

L11 ANSWER 23 OF 94 MEDLINE
AN 97110549 MEDLINE
DN 97110549 PubMed ID: 8952700
TI 24,25-(OH)2D3 regulates protein kinase C through two distinct phospholipid-dependent mechanisms.
AU Helm S; Sylvia V L; Harmon T; Dean D D; Boyan B D; Schwartz Z
CS Department of Orthopaedics, University of Texas Health Science Center at San Antonio 78284, USA.
NC DE-05937 (NIDCR)
DE-08603 (NIDCR)
SO JOURNAL OF CELLULAR PHYSIOLOGY, (1996 Dec) 169 (3) 509-21.
Journal code: 0050222. ISSN: 0021-9541.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199701
ED Entered STN: 19970128
Last Updated on STN: 20000303
Entered Medline: 19970107

L11 ANSWER 24 OF 94 MEDLINE
AN 96255386 MEDLINE
DN 96255386 PubMed ID: 8711138
TI **Genistein** suppresses EGF-induced prostaglandin biosynthesis by a mechanism independent of EGF receptor tyrosine kinase **inhibition**.
AU Kniss D A; Zimmerman P D; Su H C; Fertel R H
CS Department of Obstetrics & Gynecology, Ohio State University, College of Medicine, Columbus 43210-1228, USA.
NC HD28360 (NICHD)
SO PROSTAGLANDINS, (1996 Feb) 51 (2) 87-105.
Journal code: 0320271. ISSN: 0090-6980.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199609
ED Entered STN: 19960919
Last Updated on STN: 20000303
Entered Medline: 19960911

L11 ANSWER 25 OF 94 MEDLINE
AN 95364273 MEDLINE
DN 95364273 PubMed ID: 7637265
TI IL-1 beta regulates rat mesangial **cyclooxygenase** II gene expression by tyrosine phosphorylation.

AU Rzymkiewicz D M; DuMaine J; Morrison A R
CS Department of Medicine, Washington University School of Medicine, St. Louis, Missouri, USA.
NC DK PO-38111 (NIDDK)
HL 20787 (NHLBI)
SO KIDNEY INTERNATIONAL, (1995 May) 47 (5) 1354-63.
Journal code: 0323470. ISSN: 0085-2538.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199509
ED Entered STN: 19950921
Last Updated on STN: 19980206
Entered Medline: 19950912

L11 ANSWER 26 OF 94 MEDLINE
AN 94228514 MEDLINE
DN 94228514 PubMed ID: 7513607
TI Effects of signalling transduction modulators on the transformed phenotypes in v-H-ras-transformed NIH 3T3 cells.
AU Kuo M L; Kang J J; Yang N C
CS Institute of Toxicology, College of Medicine, National Taiwan University, Taipei, Republic of China.
SO CANCER LETTERS, (1993 Nov 1) 74 (3) 197-202.
Journal code: 7600053. ISSN: 0304-3835.
CY Ireland
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199406
ED Entered STN: 19940620
Last Updated on STN: 19980206
Entered Medline: 19940609

L11 ANSWER 27 OF 94 MEDLINE
AN 94133128 MEDLINE
DN 94133128 PubMed ID: 8301564
TI Modulation of superoxide generation in in vivo lipopolysaccharide-primed Kupffer cells by staurosporine, okadaic acid, manoalide, arachidonic acid,
genistein and sodium orthovanadate.
AU Mayer A M; Spitzer J A
CS Department of Physiology, Louisiana State University Medical Center, New Orleans.
NC GM 32654 (NIGMS)
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1994 Jan) 268 (1) 238-47.
Journal code: 0376362. ISSN: 0022-3565.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199403
ED Entered STN: 19940318
Last Updated on STN: 19980206
Entered Medline: 19940310

L11 ANSWER 28 OF 94 MEDLINE
AN 93349365 MEDLINE

DN 93349365 PubMed ID: 8394081
TI Effects of **genistein**, a tyrosine kinase inhibitor, on platelet functions. **Genistein** attenuates thrombin-induced Ca2+ mobilization in human platelets by affecting polyphosphoinositide turnover.
AU Ozaki Y; Yatomi Y; Jinnai Y; Kume S
CS Department of Clinical and Laboratory Medicine, Yamanashi Medical College, Japan.
SO BIOCHEMICAL PHARMACOLOGY, (1993 Aug 3) 46 (3) 395-403. Journal code: 0101032. ISSN: 0006-2952.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199309
ED Entered STN: 19930924
Last Updated on STN: 19980206
Entered Medline: 19930909

L11 ANSWER 29 OF 94 MEDLINE
AN 93259664 MEDLINE
DN 93259664 PubMed ID: 8491500
TI Epidermal growth factor is a potent inhibitor of renin secretion.
AU Antonipillai I
CS USC Medical Center, Division of Endocrinology, Los Angeles 90033.
NC HL-44404 (NHLBI)
SO HYPERTENSION, (1993 May) 21 (5) 654-9. Journal code: 7906255. ISSN: 0194-911X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199306
ED Entered STN: 19930625
Last Updated on STN: 20000303
Entered Medline: 19930611

L11 ANSWER 30 OF 94 MEDLINE
AN 93049678 MEDLINE
DN 93049678 PubMed ID: 1425935
TI Possible mechanism of immunosuppressive effect of scoparone (6,7-dimethoxycoumarin).
AU Huang H C; Huang Y L; Chang J H; Chen C C; Lee Y T
CS Department of Pharmacology, College of Medicine, National Taiwan University, Taipei.
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (1992 Jul 7) 217 (2-3) 143-8. Journal code: 1254354. ISSN: 0014-2999.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199212
ED Entered STN: 19930122
Last Updated on STN: 19980206
Entered Medline: 19921204

L11 ANSWER 31 OF 94 MEDLINE
AN 90219838 MEDLINE
DN 90219838 PubMed ID: 2139153

TI Interaction of phytoestrogens and other environmental estrogens with prostaglandin synthase in vitro.
AU Degen G H
CS Institute of Toxicology, University of Wurzburg, F.R.G.
SO JOURNAL OF STEROID BIOCHEMISTRY, (1990 Mar) 35 (3-4) 473-9.
Journal code: 0260125. ISSN: 0022-4731.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199005
ED Entered STN: 19900622
Last Updated on STN: 19900622
Entered Medline: 19900524

L11 ANSWER 32 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:407168 BIOSIS
DN PREV200200407168
TI Periadventitial fat releases a vascular relaxing factor.
AU Loehn, Matthias; Dubrovska, Galyna; Lauterbach, Birgit; Luft, Friedrich C.; Gollasch, Maik; Sharma, Arya M. (1)
CS (1) Franz-Volhard Klinik, Wiltbergstrasse 50, 13125, Berlin: gollasch@fvk-berlin.de, sharma@fvk-berlin.de Germany
SO FASEB Journal, (July, 2002) Vol. 16, No. 9, pp. 1057-1063.
http://www.fasebj.org/. print.
ISSN: 0892-6638.
DT Article
LA English

L11 ANSWER 33 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2002:317878 BIOSIS
DN PREV200200317878
TI Estrogen acutely activates prostacyclin synthesis in ovine fetal pulmonary
artery endothelium.
AU Sherman, Todd S.; Chambliss, Ken L.; Gibson, Linda L.; Pace, Margaret C.; Mendelsohn, Michael E.; Pfister, Sandra L.; Shaul, Philip W. (1)
CS (1) Department of Pediatrics, University of Texas Southwestern Medical Center, 5323 Harry Hines Blvd., Dallas, TX, 75390-9063: philip.shaul@utsouthwestern.edu USA
SO American Journal of Respiratory Cell and Molecular Biology, (May, 2002) Vol. 26, No. 5, pp. 610-616. print.
ISSN: 1044-1549.
DT Article
LA English

L11 ANSWER 34 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:227008 BIOSIS
DN PREV200100227008
TI Leishmania donovani-induced macrophages **cyclooxygenase**-2 and prostaglandin E2 synthesis.
AU Matte, Claudine; Maion, Grazia; Mourad, Walid; Olivier, Martin (1)
CS (1) Centre en Recherche en Infectiologie, Centre Hospitalier Universitaire
de Quebec, 2705 Boulevard Laurier, Pavillon CHUL, RC-709, Sainte-Foy, PQ, G1V 4G2: martin.olivier@crchul.ulaval.ca Canada
SO Parasite Immunology (Oxford), (April, 2001) Vol. 23, No. 4, pp. 177-184. print.
ISSN: 0141-9838.
DT Article

LA English
SL English

L11 ANSWER 35 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:128330 BIOSIS
DN PREV200100128330
TI The 'in vivo' and 'ex vivo' roles of **cyclooxygenase**-2, nuclear factor-kappaB and protein kinases pathways in the up-regulation of B1 receptor-mediated contraction of the rabbit aorta.
AU Medeiros, Rodrigo; Cabrini, Daniela A.; Calixto, Joao B. (1)
CS (1) Department of Pharmacology, Centre of Biological Sciences, Federal University of Santa Catarina, Rua Ferreira Lima 82, 88015-420, Florianopolis, SC: calixto@farmaco.ufsc.br Brazil
SO Regulatory Peptides, (2 March, 2001) Vol. 97, No. 2-3, pp. 121-130. print.
ISSN: 0167-0115.
DT Article
LA English
SL English

L11 ANSWER 36 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2001:26246 BIOSIS
DN PREV200100026246
TI Characterization of endothelial factors involved in the vasodilatory effect of simvastatin in aorta and small mesenteric artery of the rat.
AU Alvarez de Sotomayor, Maria (1); Herrera, Maria Dolores; Marhuenda, Elisa;
Andriantsitohaina, Ramaroson
CS (1) Department of Pharmacology, Faculty of Pharmacy, University of Seville, C/ Profesor Garcia-Gonzalez s/n, 41012, Seville: aldesoto@fafar.us.es Spain
SO British Journal of Pharmacology, (November, 2000) Vol. 131, No. 6, pp. 1179-1187. print.
ISSN: 0007-1188.
DT Article
LA English
SL English

L11 ANSWER 37 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:273150 BIOSIS
DN PREV200000273150
TI Suppression of **cyclooxygenase**-2 promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure.
AU Mutoh, Michihiro; Takahashi, Mami; Fukuda, Kazunori; Matsushima-Hibiya, Yuko; Mutoh, Hiroshi; Sugimura, Takashi; Wakabayashi, Keiji (1)
CS (1) Cancer Prevention Division, National Cancer Center Research Institute,
1-1 Tsukiji 5-chome, Chuo-ku, Tokyo, 104-0045 Japan
SO Carcinogenesis (Oxford), (May, 2000) Vol. 21, No. 5, pp. 959-963. print..
ISSN: 0143-3334.
DT Article
LA English
SL English

L11 ANSWER 38 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 2000:121744 BIOSIS
DN PREV200000121744
TI **Genistein** potentiates the relaxation induced by beta1- and

beta2-adrenoceptor activation in rat aortic rings.
AU Satake, Nobuhiro; Imanishi, Masami; Keto, Yoshihiro; Yamada, Hiroyuki; Ishikawa, Makoto; Shibata, Shoji (1)
CS (1) Department of Pharmacology, University of Hawaii, School of Medicine, Honolulu, HI, 96822 USA
SO Journal of Cardiovascular Pharmacology, (Feb., 2000) Vol. 35, No. 2, pp. 227-233.
ISSN: 0160-2446.
DT Article
LA English
SL English

L11 ANSWER 39 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:527803 BIOSIS
DN PREV199900527803
TI Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages.
AU Liang, Yu-Chih; Huang, Ying-Tang; Tsai, Shu-Huei; Lin-Shiau, Shoei-Yn; Chen, Chieh-Fu; Lin, Jen-Kun (1)
CS (1) College of Medicine, Institute of Biochemistry, National Taiwan University, Jen-Ai Road, No. 1, Section 1, Taipei Taiwan
SO Carcinogenesis (Oxford), (Oct., 1999) Vol. 20, No. 10, pp. 1945-1952.
ISSN: 0143-3334.
DT Article
LA English
SL English

L11 ANSWER 40 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1999:56982 BIOSIS
DN PREV199900056982
TI Induction of mitogen-activated protein kinase phosphatase-1 by arachidonic acid in vascular smooth muscle cells.
AU Metzler, Bernhard; Hu, Yanhua; Sturm, Gertraud; Wick, Georg; Xu, Qingbo (1)
CS (1) Inst. Biomed. Aging Res., Austrian Acad. Sci., Rennweg 10, A-6020 Innsbruck Austria
SO Journal of Biological Chemistry, (Dec. 11, 1998) Vol. 273, No. 50, pp. 33320-33326.
ISSN: 0021-9258.
DT Article
LA English

L11 ANSWER 41 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:509292 BIOSIS
DN PREV199800509292
TI Evidence for a tyrosine kinase-dependent activation of the adenylyl cyclase/PKA cascade downstream from the G-protein-linked endothelin ETA receptor in vascular smooth muscle.
AU El-Mowafy, Abdalla M.; White, Richard E. (1)
CS (1) Dep. Physiol. Biophys., Wright State Univ. Sch. Med., Room 158 Biol. Sci., Build., Dayton, OH 45435 USA
SO Biochemical and Biophysical Research Communications, (Oct. 20, 1998) Vol. 251, No. 2, pp. 494-500.
ISSN: 0006-291X.
DT Article
LA English

L11 ANSWER 42 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:500993 BIOSIS

DN PREV199800500993
TI Dual effects of nimesulide, a COX-2 inhibitor, in human platelets.
AU Saeed, Sheikh A. (1); Afzal, M. N.; Shah, Bukhtiar H.
CS (1) Dep. Physiol. Pharmacol., Aga Khan Univ., Karachi-74800 Pakistan
SO Life Sciences, (Oct. 9, 1998) Vol. 63, No. 20, pp. 1835-1841.
ISSN: 0024-3205.
DT Article
LA English

L11 ANSWER 43 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:446520 BIOSIS
DN PREV199800446520
TI Type I collagen influence on gene expression in UMR106-06 osteoblast-like cells is inhibited by **genistein**.
AU Celic, S.; Katayama, Y.; Chilco, P. J.; Martin, T. J.; Findlay, D. M. (1)
CS (1) Dep. Orthopaedics Trauma, Univ. Adelaide, Level 4, Bice Building, Royal Adelaide Hospital, North Terrace, Adelaide 5000, SA Australia
SO Journal of Endocrinology, (Sept., 1998) Vol. 158, No. 3, pp. 377-388.
ISSN: 0022-0795.
DT Article
LA English

L11 ANSWER 44 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:222831 BIOSIS
DN PREV199800222831
TI Parallel contractile signal transduction pathways activated by receptors for thrombin and epidermal growth factor-urogastrone in guinea pig gastric
smooth muscle: Blockade by inhibitors of mitogen-activated protein kinase-kinase and phosphatidyl inositol 3'-kinase.
AU Zheng, Xi-Long; Renaux, Bernard; Hollenberg, Morley D. (1)
CS (1) Dep. Pharmacol. Ther., Univ. Calgary, Fac. Med., Calgary, AB T2N 4N1 Canada
SO Journal of Pharmacology and Experimental Therapeutics, (April, 1998) Vol. 285, No. 1, pp. 325-334.
ISSN: 0022-3565.
DT Article
LA English

L11 ANSWER 45 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:216917 BIOSIS
DN PREV199800216917
TI On the induction of **cyclooxygenase**-2, inducible nitric oxide synthase and soluble phospholipase A2 in rat mesangial cells by a nonsteroidal anti-inflammatory drug: The role of cyclic AMP.
AU Klein, Thomas (1); Ullrich, Volker; Pfeilschifter, Josef; Nuesing, Rolf
CS (1) Dep. Biochemistry, Byk Gulden Pharm., 78463 Konstanz Germany
SO Molecular Pharmacology, (March, 1998) Vol. 53, No. 3, pp. 385-391.
ISSN: 0026-895X.
DT Article
LA English

L11 ANSWER 46 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1998:43449 BIOSIS
DN PREV199800043449
TI Differential signaling pathways in platelet-activating factor-induced proliferation and interleukin-6 production by rat vascular smooth muscle cells.
AU Gaumond, Fanny; Fortin, Denis; Stankova, Jana; Rola-Pleszczynski, Marek (1)

CS (1) Immunol. Div., Dep. Pediatr., Fac. Med., Univ. Sherbrooke, 3001 N. 12th Ave., Sherbrooke, PQ J1H 5N4 Canada
SO Journal of Cardiovascular Pharmacology, (Aug., 1997) Vol. 30, No. 2, pp. 169-175.
ISSN: 0160-2446.
DT Article
LA English

L11 ANSWER 47 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:483909 BIOSIS
DN PREV199799783112
TI Bradykinin B-2-receptor-mediated stimulation of exocytotic noradrenaline release from cardiac sympathetic neurons.
AU Kurz, Thomas (1); Toelg, Ralph; Richardt, Gert
CS (1) Med. Univ. upon Luebeck, Med. Klinik II, Ratzeburger Allee 160, 23538 Luebeck Germany
SO Journal of Molecular and Cellular Cardiology, (1997) Vol. 29, No. 9, pp. 2561-2569.
ISSN: 0022-2828.
DT Article
LA English

L11 ANSWER 48 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:441026 BIOSIS
DN PREV199799740229
TI Enhancement of experimental colon cancer by **genistein**.
AU Rao, Chinthalapally V. (1); Wang, Chung-Xiou; Simi, Barbara; Lubet, Ronald; Kelloff, Gary; Steele, Vernon; Reddy, Bandaru S.
CS (1) Div. Nutritional Carcinogenesis, American Health Foundation, Valhalla, NY 10595 USA
SO Cancer Research, (1997) Vol. 57, No. 17, pp. 3717-3722.
ISSN: 0008-5472.
DT Article
LA English

L11 ANSWER 49 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:397559 BIOSIS
DN PREV199799696762
TI Contractile action of ethanol in guinea pig gastric smooth muscle: **Inhibition** by tyrosine kinase inhibitors and comparison with the contractile action of epidermal growth factor-urogastrone.
AU Zheng, Xi-Long; Mokashi, Shalini; Hollenberg, Morley D. (1)
CS (1) Dep. Pharmacol. Ther., Univ. Calgary, Fac. Med., Calgary, AB T2N 4N1 Canada
SO Journal of Pharmacology and Experimental Therapeutics, (1997) Vol. 282, No. 1, pp. 485-495.
ISSN: 0022-3565.
DT Article
LA English

L11 ANSWER 50 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:61860 BIOSIS
DN PREV199799361063
TI Protein kinase Cs and tyrosine kinases in permissive action of prostacyclin on cerebrovascular regulation in newborn pigs.
AU Rama, Ganapathy P.; Parfenova, Helena; Leffler, Charles W. (1)
CS (1) Dep. Physiol. Biophysics, Univ. Tenn. Memphis, 894 Union Ave., Memphis, TN 38163 USA
SO Pediatric Research, (1997) Vol. 41, No. 1, pp. 83-89.

ISSN: 0031-3998.
DT Article
LA English

L11 ANSWER 51 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1997:41533 BIOSIS
DN PREV199799333521
TI 24,25-(OH)-2D-3 regulates protein kinase C through two distinct phospholipid-dependent mechanisms.
AU Helm, S.; Sylvia, V. L.; Harmon, T.; Dean, D. D.; Boyan, B. D. (1); Schwartz, Z.
CS (1) Dep. Orthopaedics, Univ. Texas Health Sci. Center at San Antonio, 7703
Floyd Curl Drive, San Antonio, TX 78284-7774 USA
SO Journal of Cellular Physiology, (1996) Vol. 169, No. 3, pp. 509-521.
ISSN: 0021-9541.
DT Article
LA English

L11 ANSWER 52 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1996:125684 BIOSIS
DN PREV199698697819
TI Regulation of insulinoma cell proliferation and insulin accumulation by peptides and second messengers.
AU Sjoholm, Ake
CS Dep. Mol. Med., Endocrine Diabetes Unit, Rolf Luft Cent. Diabetes Res., Karolinska Inst., Karolinska Hosp., S-171 76 Stockholm Sweden
SO Upsala Journal of Medical Sciences, (1995) Vol. 100, No. 3, pp. 201-216.
ISSN: 0300-9734.
DT Article
LA English

L11 ANSWER 53 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1995:323574 BIOSIS
DN PREV199598337874
TI IL-1-beta regulates rat mesangial **cyclooxygenase** II gene expression by tyrosine phosphorylation.
AU Rzymkiewicz, Danuta M.; Dumaine, Jessica; Morrison, Aubrey R. (1)
CS (1) Dep. Mol. Biol. Pharmacol., Washington Univ. Sch. Med., 660 S. Euclid Ave., Box 8103, St. Louis, MO 63110 USA
SO Kidney International, (1995) Vol. 47, No. 5, pp. 1354-1363.
ISSN: 0085-2538.
DT Article
LA English

L11 ANSWER 54 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:156827 BIOSIS
DN PREV199497169827
TI Modulation of superoxide generation in in vivo lipopolysaccharide-primed Kupffer cells by staurosporine, okadaic acid, manoalide, arachidonic acid,
genistein and sodium orthovanadate.
AU Mayer, Alejandro M. S.; Spitzer, Judy A. (1)
CS (1) Dep. Physiol., La. State Univ. Med. Cent., 1901 Perdido St., New Orleans, LA 70112-1393 USA
SO Journal of Pharmacology and Experimental Therapeutics, (1994) Vol. 268, No. 1, pp. 238-247.
ISSN: 0022-3565.
DT Article
LA English

L11 ANSWER 55 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1994:78641 BIOSIS
DN PREV199497091641
TI Effects of signalling transduction modulators on the transformed phenotypes in v-H-ras-transformed NIH 3T3 cells.
AU Kuo, Min-Liang; Kang, Jaw-Jou; Yang, Nae-Cherng
CS Inst. Toxicol., Coll. Med., Natl. Taiwan Univ., NO. 1. Section 1, Jen-Ai Road, Taipei Taiwan
SO Cancer Letters, (1993) Vol. 74, No. 3, pp. 197-202.
ISSN: 0304-3835.
DT Article
LA English

L11 ANSWER 56 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1993:495889 BIOSIS
DN PREV199396119896
TI ADP- and thapsigargin-evoked calcium entry and protein-tyrosine phosphorylation are inhibited by the tyrosine kinase inhibitors **genistein** and methyl-2,5-dihydroxycinnamate in fura-2-loaded human platelets.
AU Sargean, Paul (1); Farndale, Richard W.; Sage, Stewart O.
CS (1) Physiol. Lab., Downing St., Univ. Cambridge, Cambridge CB2 3EG UK
SO Journal of Biological Chemistry, (1993) Vol. 268, No. 24, pp. 18151-18156.
ISSN: 0021-9258.
DT Article
LA English

L11 ANSWER 57 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1993:458352 BIOSIS
DN PREV199396103252
TI Effects of **genistein**, a tyrosine kinase inhibitor, on platelet functions: **Genistein** attenuates thrombin-induced calcium mobilization in human platelets by affecting polyphosphoinositide turnover.
AU Ozaki, Yukio (1); Yatomi, Yutaka; Jinnai, Yuki; Kume, Shoji
CS (1) Dep. Clinical Lab. Med., Yamanashi Med. Coll., Shimokato 1110, Tamaho,
Nakakoma, Yamanashi 409-38 Japan
SO Biochemical Pharmacology, (1993) Vol. 46, No. 3, pp. 395-403.
ISSN: 0006-2952.
DT Article
LA English

L11 ANSWER 58 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1993:349738 BIOSIS
DN PREV199396046738
TI Epidermal growth factor is a potent inhibitor of renin secretion.
AU Antonipillai, Indra
CS U.S.C. Med. Cent., Div. Endocrinol., 1200 N. State St., Unit I 18-632, Los
Angeles, CA 90033 USA
SO Hypertension (Dallas), (1993) Vol. 21, No. 5, pp. 654-659.
ISSN: 0194-911X.
DT Article
LA English

L11 ANSWER 59 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1992:436425 BIOSIS

DN BA94:88550
TI POSSIBLE MECHANISM OF IMMUNOSUPPRESSIVE EFFECT OF SCOPARONE 6 7 DIMETHOXYCOUMARIN.
AU HUANG H-C; HUANG Y-L; CHANG J-H; CHEN C-C; LEE Y-T
CS DEP. PHARMACOLOGY, COLL. MED., NATL. TAIWAN UNIVERSITY, NO. 1, JEN-AI ROAD, 1ST SECTION, TAIPEI, TAIWAN.
SO EUR J PHARMACOL, (1992) 217 (2-3), 143-148.
CODEN: EJPHAZ. ISSN: 0014-2999.
FS BA; OLD
LA English

L11 ANSWER 60 OF 94 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
AN 1990:292429 BIOSIS
DN BA90:23275
TI INTERACTION OF PHYTOESTROGENS AND OTHER ENVIRONMENTAL ESTROGENS WITH PROSTAGLANDIN SYNTHASE IN-VITRO.
AU DEGEN G H
CS INST. TOXICOL., SFB 172, UNIV. WUERZBURG, VERSBACHER STR. 9, D-8700 WUERZBURG, FRG.
SO J STEROID BIOCHEM, (1990) 35 (3-4), 473-480.
CODEN: JSTBBK. ISSN: 0022-4731.
FS BA; OLD
LA English

L11 ANSWER 61 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2002:351763 CAPLUS
DN 137:73504
TI Estrogen acutely activates prostacyclin synthesis in ovine fetal pulmonary
artery endothelium
AU Sherman, Todd S.; Chambliss, Ken L.; Gibson, Linda L.; Pace, Margaret C.; Mendelsohn, Michael E.; Pfister, Sandra L.; Shaul, Philip W.
CS Department of Pediatrics, University of Texas Southwestern Medical Center at Dallas, Dallas, TX, 75390-9063, USA
SO American Journal of Respiratory Cell and Molecular Biology (2002), 26(5), 610-616
CODEN: AJRBEL; ISSN: 1044-1549
PB American Thoracic Society
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 62 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:334148 CAPLUS
DN 135:190040
TI Suppression of inducible **cyclooxygenase** and nitric oxide synthase through activation of peroxisome proliferator-activated receptor-.gamma. by flavonoids in mouse macrophages
AU Liang, Y.-C.; Tsai, S.-H.; Tsai, D.-C.; Lin-Shiau, S.-Y.; Lin, J.-K.
CS Institute of Biochemistry, College of Medicine, No. 1, Section 1, Jen-Ai Road, National Taiwan University, Taipei, Taiwan
SO FEBS Letters (2001), 496(1), 12-18
CODEN: FEBLAL; ISSN: 0014-5793
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 63 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:318104 CAPLUS
DN 135:301949
TI Leishmania donovani-induced macrophages **cyclooxygenase**-2 and prostaglandin E2 synthesis
AU Matte, Claudine; Maion, Grazia; Mourad, Walid; Olivier, Martin
CS Centres de Recherche en Infectiologie, Universite Laval, Ste-Foy, QC, G1V 4G2, Can.
SO Parasite Immunology (2001), 23(4), 177-184
CODEN: PAIMD8; ISSN: 0141-9838
PB Blackwell Science Ltd.
DT Journal
LA English
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 64 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:251165 CAPLUS
DN 134:290742
TI Vascular endothelial growth factor and the in vivo increase in plasma extravasation in the hamster cheek pouch
AU Feletou, Michel; Staczek, Joanna; Duhault, Jacques
CS Departement Diabete et Maladies Metaboliques, Institut de Recherches Servier, Suresnes, 92150, Fr.
SO British Journal of Pharmacology (2001), 132(6), 1342-1348
CODEN: BJPCBM; ISSN: 0007-1188
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 65 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:146488 CAPLUS
DN 134:183458
TI Method for inhibiting **cyclooxygenase** and inflammation using cherry bioflavonoids
IN Nair, Muraleedharan G.; Wang, Haibo; Strasburg, Gale M.; Booren, Alden M.;
Gray, James I.
PA Board of Trustees Operating Michigan State University, USA
SO U.S., 16 pp., Cont.-in-part of U.S. Ser. No. 317,310.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6194469	B1	20010227	US 1999-337313	19990621
	US 6423365	B1	20020723	US 1999-317310	19990524
	WO 2000033824	A2	20000615	WO 1999-US29261	19991210
	WO 2000033824	A3	20000810		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,

CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1137429 A2 20011004 EP 1999-966092 19991210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI
JP 2002531493 T2 20020924 JP 2000-586317 19991210
US 2001020009 A1 20010906 US 2000-749856 20001228
PRAI US 1998-111945P P 19981211
US 1999-120178P P 19990216
US 1999-317310 A2 19990524
US 1999-337313 A2 19990621
WO 1999-US29261 W 19991210
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 66 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:74405 CAPLUS
DN 134:158086
TI The 'in vivo' and 'ex vivo' roles of **cyclooxygenase**-2, nuclear factor-.kappa.B and protein kinases pathways in the up-regulation of B1 receptor-mediated contraction of the rabbit aorta
AU Medeiros, R.; Cabrini, D. A.; Calixto, J. B.
CS Department of Pharmacology, Centre of Biological Sciences, Federal University of Santa Catarina, Florianopolis, SC, 88015-420, Brazil
SO Regulatory Peptides (2001), 97(2-3), 121-130
CODEN: REPPDY; ISSN: 0167-0115
PB Elsevier Science Ireland Ltd.
DT Journal
LA English
RE.CNT 49 THERE ARE 49 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 67 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2001:16707 CAPLUS
DN 135:4952
TI Study on cancer preventive substances in soybeans
AU Nishino, Hoyoku
CS Kyoto Prefectural University of Medicine, Kyoto, Kamigyo-ku, Kawaramachi, Hirokoji, Agaru, 502-8566, Japan
SO Daizu Tanpakushitsu Kenkyu (2000), 3, 59-62
CODEN: DTKEFV; ISSN: 1344-4050
PB Fuji Tanpakushitsu Kenkyu Shinko Zaidan
DT Journal
LA Japanese

L11 ANSWER 68 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:863251 CAPLUS
DN 134:157376
TI Characterization of endothelial factors involved in the vasodilatory effect of simvastatin in aorta and small mesenteric artery of the rat
AU De Sotomayor, Maria Alvarez; Herrera, Maria Dolores; Marhuenda, Elisa; Andriantsitohaina, Ramaroson
CS Department of Pharmacology, Faculty of Pharmacy, University of Seville, Seville, 41012, Spain
SO British Journal of Pharmacology (2000), 131(6), 1179-1187
CODEN: BJPCBM; ISSN: 0007-1188
PB Nature Publishing Group
DT Journal
LA English
RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 69 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:711937 CAPLUS
DN 134:95759
TI Synergistic interaction of adrenaline and histamine in human platelet aggregation is mediated through activation of phospholipase, MAP kinase and cyclo-oxygenase pathways
AU Shah, Bukhtiar H.; Lashari, I.; Rana, S.; Saeed, O.; Rasheed, H.; Arshad Saeed, S.
CS Department of Physiology and Pharmacology, The Aga Khan University, Karachi, 74800, Pak.
SO Pharmacological Research (2000), 42(5), 479-483
CODEN: PHMREP; ISSN: 1043-6618
PB Academic Press
DT Journal
LA English
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 70 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:445131 CAPLUS
DN 133:290821
TI **Inhibition** of **cyclooxygenase**-2 induction in rat peritoneal macrophages by tectorigenin isolated from the rhizomes of Belamcanda chinensis, and its mechanism of action
AU Ohuchi, Kazuo; Kim, Yong Pil; Lim, Soon Sung; Lee, Sanghyun; Ryu, Nama; Shin, Kuk Hyun
CS Department of Pathophysiological Biochemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Miyagi, 980-8578, Japan
SO Recent Advances in Natural Products Research, Proceedings of the International Symposium on Recent Advances in Natural Products Research, 3rd, Seoul, Republic of Korea, Nov. 19, 1999 (1999), 12-24. Editor(s): Shin, Kuk Hyun; Kang, Sam Sik; Kin, Yeong Shik. Publisher: Seoul National University, Natural Products Research Institute, Seoul, S. Korea.
CODEN: 69ACLK
DT Conference
LA English
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 71 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:407652 CAPLUS
DN 133:261100
TI **Cyclooxygenase** active bioflavonoids from Balaton tart cherry and their structure activity relationships
AU Wang, H.; Nair, M. G.; Strasburg, G. M.; Booren, A. M.; Gray, I.; Dewitt, D. L.
CS Bioactive Natural Products Laboratory, Department of Horticulture and National Food Safety and Toxicology Center, Michigan State University, Michigan, MI, USA
SO Phytomedicine (2000), 7(1), 15-19
CODEN: PYTOEY; ISSN: 0944-7113
PB Urban & Fischer Verlag
DT Journal
LA English
RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 72 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:358255 CAPLUS

DN 133:99077
TI Suppression of **cyclooxygenase**-2 promoter-dependent transcriptional activity in colon cancer cells by chemopreventive agents with a resorcin-type structure
AU Mutoh, Michihiro; Takahashi, Mami; Fukuda, Kazunori; Matsushima-Hibiya, Yuko; Mutoh, Hiroshi; Sugimura, Takashi; Wakabayashi, Keiji
CS Cancer Prevention Division, National Cancer Center Research Institute, Tokyo, 104-0045, Japan
SO Carcinogenesis (2000), 21(5), 959-963
CODEN: CRNGDP; ISSN: 0143-3334
PB Oxford University Press
DT Journal
LA English
RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 73 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 2000:85684 CAPLUS
DN 132:216808
TI **Genistein** potentiates the relaxation induced by .beta.1- and .beta.2-adrenoceptor activation in rat aortic rings
AU Satake, Nobuhiro; Imanishi, Masami; Keto, Yoshihiro; Yamada, Hiroyuki; Ishikawa, Makoto; Shibata, Shoji
CS Department of Pharmacology, School of Medicine, University of Hawaii, Honolulu, HI, 96822, USA
SO Journal of Cardiovascular Pharmacology (2000), 35(2), 227-233
CODEN: JCPCDT; ISSN: 0160-2446
PB Lippincott Williams & Wilkins
DT Journal
LA English
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 74 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1999:750655 CAPLUS
DN 132:103269
TI **Inhibition** of cGMP accumulation in mesangial cells by bradykinin and tyrosine kinase inhibitors
AU Alric, Celine; Pecher, Christiane; Tack, Ivan; Schanstra, Joost P.; Bascands, Jean-Loup; Girolami, Jean-Pierre
CS Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, Institut National de la Sante et de la Recherche Medicale U388, Institut Louis Bugnard, CHU Rangueil, Toulouse, 31403, Fr.
SO International Journal of Molecular Medicine (1999), 4(5), 557-564
CODEN: IJMMFG; ISSN: 1107-3756
PB International Journal of Molecular Medicine
DT Journal
LA English
RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 75 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1999:675773 CAPLUS
DN 132:8722
TI Suppression of inducible **cyclooxygenase** and inducible nitric oxide synthase by apigenin and related flavonoids in mouse macrophages
AU Liang, Yu-Chih; Huang, Ying-Tang; Tsai, Shu-Huei; Lin-Shiau, Shoei-Yn; Chen, Chieh-Fu; Lin, Jen-Kun
CS Institute of Biochemistry, College of Medicine, No. 1, Section 1, National

Taiwan University, Taipei, Taiwan
SO Carcinogenesis (1999), 20(10), 1945-1952
CODEN: CRNGDP; ISSN: 0143-3334
PB Oxford University Press
DT Journal
LA English
RE.CNT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 76 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1999:237600 CAPLUS
DN 131:39410
TI Induction of cyclo-oxygenase-2 expression by methyl arachidonyl fluorophosphonate in murine J774 macrophages: roles of protein kinase C, ERKs and p38 MAPK
AU Lin, Wan-W.; Chen, Bing-C.
CS Department of Pharmacology, College of Medicine, National Taiwan University, Taipei, Taiwan
SO British Journal of Pharmacology (1999), 126(6), 1419-1425
CODEN: BJPCBM; ISSN: 0007-1188
PB Stockton Press
DT Journal
LA English
RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 77 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1999:293 CAPLUS
DN 130:180371
TI Induction of mitogen-activated protein kinase phosphatase-1 by arachidonic acid in vascular smooth muscle cells
AU Metzler, Bernhard; Hu, Yanhua; Sturm, Gertraud; Wick, Georg; Xu, Qingbo
CS Institute for Biomedical Aging Research, Austrian Academy of Sciences, Innsbruck, A-6020, Austria
SO Journal of Biological Chemistry (1998), 273(50), 33320-33326
CODEN: JBCHA3; ISSN: 0021-9258
PB American Society for Biochemistry and Molecular Biology
DT Journal
LA English
RE.CNT 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 78 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1998:699542 CAPLUS
DN 130:47874
TI Evidence for a tyrosine kinase-dependent activation of the adenylyl cyclase/PKA cascade downstream from the G-protein-linked endothelin ETA receptor in vascular smooth muscle
AU El-Mowafy, Abdalla M.; White, Richard E.
CS Department of Physiology and Biophysics, Wright State University School of Medicine, Dayton, OH, 45435, USA
SO Biochemical and Biophysical Research Communications (1998), 251(2), 494-500
CODEN: BBRCA9; ISSN: 0006-291X
PB Academic Press
DT Journal
LA English
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 79 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1998:601720 CAPLUS
DN 129:298575
TI Type I collagen influence on gene expression in UMR 106-06 osteoblast-like
cells is inhibited by **genistein**
AU Celic, S.; Katayama, Y.; Chilco, P. J.; Martin, T. J.; Findlay, D. M.
CS St Vincent's Institute of Medical Research, Fitzroy, 3065, Australia
SO Journal of Endocrinology (1998), 158(3), 377-388
CODEN: JOENAK; ISSN: 0022-0795
PB Society for Endocrinology
DT Journal
LA English
RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 80 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1998:244939 CAPLUS
DN 129:995
TI Parallel contractile signal transduction pathways activated by receptors for thrombin and epidermal growth factor-urogastrone in guinea pig gastric
smooth muscle: blockade by inhibitors of mitogen-activated protein kinase-kinase and phosphatidyl inositol 3'-kinase
AU Zheng, Xi-Long; Renaux, Bernard; Hollenberg, Morley D.
CS Endocrine Research Group, Department of Pharmacology & Therapeutics and Department of Medicine, The University of Calgary Faculty of Medicine, Calgary, AB, T2N 4N1, Can.
SO Journal of Pharmacology and Experimental Therapeutics (1998), 285(1), 325-334
CODEN: JPETAB; ISSN: 0022-3565
PB Williams & Wilkins
DT Journal
LA English
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 81 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1998:174477 CAPLUS
DN 128:303781
TI On the induction of **cyclooxygenase**-2, inducible nitric oxide synthase and soluble phospholipase A2 in rat mesangial cells by a nonsteroidal anti-inflammatory drug: the role of cyclic AMP
AU Klein, Thomas; Ullrich, Volker; Pfeilschifter, Josef; Nusing, Rolf
CS Department of Pediatrics, Philipps University, Marburg, D-35033, Germany
SO Molecular Pharmacology (1998), 53(3), 385-391
CODEN: MOPMA3; ISSN: 0026-895X
PB Williams & Wilkins
DT Journal
LA English

L11 ANSWER 82 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1998:90150 CAPLUS
DN 128:179323
TI Differential signaling pathways in platelet-activating factor-induced proliferation and interleukin-6 production by rat vascular smooth muscle cells
AU Gaumond, Fanny; Fortin, Denis; Stankova, Jana; Rola-Pleszczynski, Marek

CS Immunology Div., Dep. Pediatrics, Fac. Med., Univ. Sherbrooke, Sherbrooke,
QC, J1H 5N4, Can.
SO Journal of Cardiovascular Pharmacology (1997), 30(2), 169-175
CODEN: JCPCDT; ISSN: 0160-2446
PB Lippincott-Raven Publishers
DT Journal
LA English

L11 ANSWER 83 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1997:634270 CAPLUS
DN 127:315093
TI Bradykinin B2-receptor-mediated stimulation of exocytotic noradrenaline release from cardiac sympathetic neurons
AU Kurz, Thomas; Tolg, Ralph; Richardt, Gert
CS Medl. Klin. II, Med. Univ., Lubeck, Germany
SO Journal of Molecular and Cellular Cardiology (1997), 29(9), 2561-2569
CODEN: JMCDAY; ISSN: 0022-2828
PB Academic
DT Journal
LA English

L11 ANSWER 84 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1997:593452 CAPLUS
DN 127:257231
TI Enhancement of experimental colon cancer by **genistein**
AU Rao, Chinthalapally V.; Wang, Chung-Xiou; Simi, Barbara; Lubet, Ronald; Kelloff, Gary; Steele, Vernon; Reddy, Bandaru S.
CS Divisions of Nutritional Carcinogenesis, American Health Foundation, Valhalla, NY, 10595, USA
SO Cancer Research (1997), 57(17), 3717-3722
CODEN: CNREA8; ISSN: 0008-5472
PB American Association for Cancer Research
DT Journal
LA English

L11 ANSWER 85 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1997:458703 CAPLUS
DN 127:105328
TI Contractile action of ethanol in guinea pig gastric smooth muscle: **inhibition** by tyrosine kinase inhibitors and comparison with the contractile action of epidermal growth factor-urogastrone
AU Zheng, Xi-Long; Mokashi, Shalini; Hollenberg, Morley D.
CS Endocrine Research Group, Dep. of Pharmacology and Therapeutics and Dep. of Medicine, Faculty of Medicine, University of Galgary, Calgary, AB, T2N 4N1, Can.
SO Journal of Pharmacology and Experimental Therapeutics (1997), 282(1), 485-495
CODEN: JPETAB; ISSN: 0022-3565
PB Williams & Wilkins
DT Journal
LA English

L11 ANSWER 86 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1997:48277 CAPLUS
DN 126:99744
TI Protein kinase Cs and tyrosine kinases in permissive action of prostacyclin on cerebrovascular regulation in newborn pigs
AU Rama, Ganapathy P.; Parfenova, Helena; Leffler, Charles W.
CS Departments Physiology/Biophysics, University Tennessee, Memphis, TN,

38163, USA
SO Pediatric Research (1997), 41(1), 83-89
CODEN: PEREBL; ISSN: 0031-3998
PB Williams & Wilkins
DT Journal
LA English

L11 ANSWER 87 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1995:649572 CAPLUS
DN 123:141322
TI IL-1.beta. regulates rat mesangial **cyclooxygenase** II gene expression by tyrosine phosphorylation
AU Rzymkiewicz, Danuta M.; DuMaine, Jessica; Morrison, Aubrey R.
CS Department Medicine, Washington University School Medicine, St. Louis, MO,
USA
SO Kidney International (1995), 47(5), 1354-63
CODEN: KDYIA5; ISSN: 0085-2538
DT Journal
LA English

L11 ANSWER 88 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1995:252083 CAPLUS
DN 122:25605
TI Involvement of tyrosine kinase in the induction of cyclo-oxygenase and nitric oxide synthase by endotoxin in cultured cells
AU Akarasereenont, P.; Mitchell, J. A.; Appleton, I.; Thiemermann, C.; Vane, J. R.
CS William Harvey Res. Inst., St. Bartholomew's Hospital Med. College, London, EC1M 6BQ, UK
SO British Journal of Pharmacology (1994), 113(4), 1522-8
CODEN: BJPCBM; ISSN: 0007-1188
PB Stockton
DT Journal
LA English

L11 ANSWER 89 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1994:153677 CAPLUS
DN 120:153677
TI Modulation of superoxide generation in in vivo lipopolysaccharide-primed Kupffer cells by staurosporine, okadaic acid, manoalide, arachidonic acid,
genistein and sodium orthovanadate
AU Mayer, Alejandro M. S.; Spitzer, Judy A.
CS Med. Cent., Louisiana State Univ., New Orleans, LA, USA
SO Journal of Pharmacology and Experimental Therapeutics (1994), 268(1), 238-47
CODEN: JPETAB; ISSN: 0022-3565
DT Journal
LA English

L11 ANSWER 90 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1994:130935 CAPLUS
DN 120:130935
TI Effects of signaling transduction modulators on the transformed phenotypes
in v-H-ras-transformed NIH 3T3 cells
AU Kuo, Min Liang; Kang, Jaw Jou; Yang, Nae Çherng
CS Coll. Med., Natl. Taiwan Univ., Taipei, Taiwan
SO Cancer Letters (Shannon, Ireland) (1993), 74(3), 197-202

CODEN: CALEDQ; ISSN: 0304-3835
DT Journal
LA English

L11 ANSWER 91 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1993:622791 CAPLUS
DN 119:222791
TI Effects of **genistein**, a tyrosine kinase inhibitor, on platelet functions. **Genistein** attenuates thrombin-induced calcium mobilization in human platelets by affecting polyphosphoinositide turnover
AU Ozaki, Yukio; Yatomi, Yutaka; Jinnai, Yuki; Kume, Shoji
CS Dep. Clin., Yamanashi Med. Coll., Yamanashi, 409-38, Japan
SO Biochemical Pharmacology (1993), 46(3), 395-403
CODEN: BCPCA6; ISSN: 0006-2952
DT Journal
LA English

L11 ANSWER 92 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1993:421149 CAPLUS
DN 119:21149
TI Epidermal growth factor is a potent inhibitor of renin secretion
AU Antonipillai, Indra
CS Med. Cent., Univ. South. California, Los Angeles, CA, USA
SO Hypertension (1993), 21(5), 654-9
CODEN: HPRTDN; ISSN: 0194-911X
DT Journal
LA English

L11 ANSWER 93 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1992:584459 CAPLUS
DN 117:184459
TI Possible mechanism of immunosuppressive effect of scoparone (6,7-dimethoxycoumarin)
AU Huang, Huei Chen; Huang, Yu Lun; Chang, Jin Hsia; Chen, Ching Chow; Lee, Yuan Teh
CS Coll. Med., Natl. Taiwan Univ., Taipei, Taiwan
SO European Journal of Pharmacology (1992), 217(2-3), 143-8
CODEN: EJPHAZ; ISSN: 0014-2999
DT Journal
LA English

L11 ANSWER 94 OF 94 CAPLUS COPYRIGHT 2003 ACS
AN 1990:229824 CAPLUS
DN 112:229824
TI Interaction of phytoestrogens and other environmental estrogens with prostaglandin synthase in vitro
AU Degen, Gisela H.
CS Inst. Toxicol., Univ. Wurzburg, Wuerzburg, D-8700, Germany
SO Journal of Steroid Biochemistry (1990), 35(3-4), 473-9
CODEN: JSTBBK; ISSN: 0022-4731
DT Journal
LA English

=> s inhibition and cox2?
L13 480 INHIBITION AND COX2?

=> s inhibition and cox2(near2)flavone?
MISSING OPERATOR 'COX2(NEAR2'

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nested terms that are not separated by a logical operator.

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L14 0 INHIBITION AND COX2(2W) FLAVONE?

=> s inhibition and cox2(2w)flavonoid?
L15 0 INHIBITION AND COX2(2W) FLAVONOID?

=> s flavonoid and cox2(2w)inhibition?
L16 1 FLAVONOID AND COX2(2W) INHIBITION?

=> d l16

L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS
AN 2001:827601 CAPLUS
DN 136:144649
TI Effects of naturally occurring prenylated **flavonoids** on enzymes metabolizing arachidonic acid: Cyclooxygenases and lipoxygenases
AU Chi, Yeon Sook; Jong, Hyon Gun; Son, Kun Ho; Chang, Hyeun Wook; Kang, Sam Sik; Kim, Hyun Pyo
CS College of Pharmacy, Kangwon National University, Chunchon, 200-701, S. Korea
SO Biochemical Pharmacology (2001), 62(9), 1185-1191
CODEN: BCPCA6; ISSN: 0006-2952
PB Elsevier Science Inc.
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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